

TA-AV480

SERVICE MANUAL

*US Model
Canadian Model
AEP Model
UK Model
E Model*



SPECIFICATIONS

US MODEL

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads both channels driven, from 20 — 20,000 Hz; rated 120 watts per channel minimum RMS power, with no more than 0.08% total harmonic distortion from 250 milliwatts to rated output.

Other specifications

Amplifier section

Power bandwidth (IHF)

7 Hz — 30 kHz (8 ohm)

Harmonic distortion

Less than 0.08% (at 1 kHz, 8-ohm load, Front US, Canadian, E MODEL: 120W+120W, Surround OFF AEP, UK MODEL: 75W+75W, Surround OFF)

Intermodulation (IM) distortion (60 Hz : 7 kHz)

Less than 0.08% at rated output

Frequency response

PHONO: RIAA equalization curve ± 0.5 dB
TUNER, CD, GRAPHIC EQ, TAPE, VIDEO 1, 2, 3,
4: 10 Hz to 70 kHz, ± 3 dB

Residual noise

Less than 25 μ V (8 ohms, network A)

Damping factor

50 (8 ohms, 1 kHz)

Video section

Video input/output

Permissible signal input level

1.5 Vp-p

Output signal level

1 + 0.1 Vp-p/with 1 Vp-p input
(measured at MONITOR OUT)

Impedance (output)

75-ohm unbalanced, negative sync

Input

Input jack	Jack type	Sensitivity	Impedance
PHONO	MM	Phono	2.0 mV
TUNER			
CD			
VIDEO 1, 2, 3, 4 (CDV)	Phono	150 mV	50 kilohms
TAPE			

Output

REC OUT	Phono jacks	Voltage 150 mV Impedance 470 kilohm
SPEAKERS	—	Accepts speakers of 8 — 16 ohms.
HEADPHONES	Stereo phone jack	Accepts low and high impedance headphones.
VIDEO 1, 2, MONITOR	S jack	1 Vp-p, 75 Ω

Tone controls

	Response
BASS	± 10 dB (100 Hz)
TREBLE	± 8 dB (10 kHz)

—Continued on page 2—

**INTEGRATED STEREO
AV AMPLIFIER**
SONY®



MICROFILM

General

System	All-stage direct-coupled pure complementary SEPP OCL circuit
Power amplifier	Surround amplifier
	Semi complementary SEPP circuit
Preamplifier	NF type tone control
Surround circuit	Operation circuit matrix type
Overall output	Front 120W + 120W (US, Canadian, E) Front 75W + 75W (AEP, UK) Surround 15W + 15W (US, Canadian, E) Surround 12.5W + 12.5W (AEP, UK)
Dolby input sensitivity	
	500 mV
Power requirements	120V AC (US, Canadian), 220V AC (AEP), 240V AC (UK), 120–220V AC (E)
Power consumption	US model: 200W Canadian: 450VA AEP, UK model: 170W E model: 220W
AC Power outlet	3 switched outputs for system, 100W
Dimensions	430 x 130 x 325 (W/H/D) (18 x 5 1/8 x 15 inches)
Weight	Approx. 9.2kg (20 lb 5oz) (Canadian, UK) Approx. 9.9kg (21 lb 13oz) (US, E) Approx. 8.5kg (18 lb 12oz) (AEP)
Accessories supplied	Programmable remote commander RM-P102 (1). Sony SUM-3 (NS) batteries (4).

FEATURES**Amplifier Features**

- This amplifier incorporates the power amplifier for the front speakers (US, Canadian, E: 120W + 120W/AEP, UK: 75W + 75W) and that for the surround speakers (US, Canadian, E: 15W + 15W/AEP, UK: 12.5W + 12.5W) independently. These amplifiers make possible a powerful surrounding sound from 4 speakers.
- The versatile input system controls 4 A/V input systems and 4 audio input systems.

Surround Features

This unit incorporates all of three types of surround effect.

-  * — expands sound just like listening to it in a movie theater.
- Hall Surround — provides reverberation effect that is produced in a large concert hall.
- Simulated Surround — gives the feeling of width and thickness to monaural sound of old movies, etc.

Programmable Remote Commander

- The supplied programmable commander is capable of "learning" the remote control signals used with other remote commanders. The single commander can replace them for controlling various audio and video equipment of any manufacturers, thereby frees you from complicated manipulation of several remote commanders.

* "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamper). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

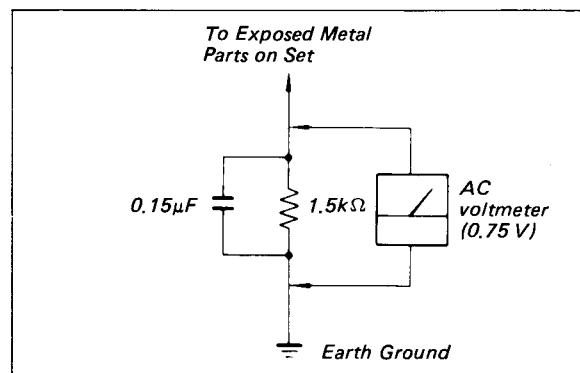


Fig. A. Using an AC voltmeter to check AC leakage.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 2

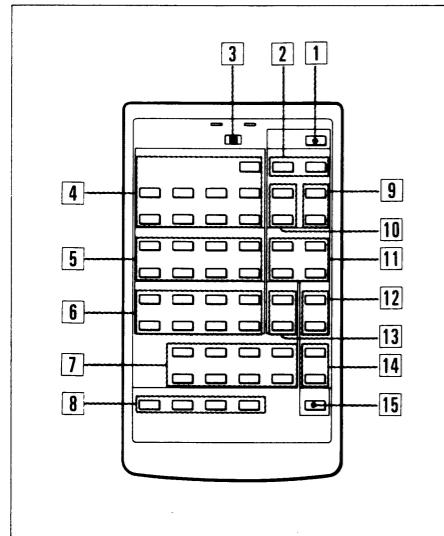
ADJUSTMENTS

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SECTION 1 GENERAL

Parts Identification of the remote commander (RM-P102)

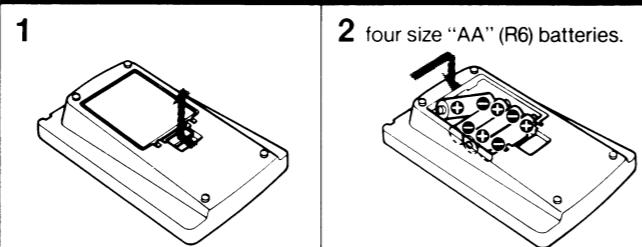


The following functions are available with the mode switch set to SONY STD.

- 1 POWER ON/OFF button
- 2 POWER ON/OFF buttons
VTR: Turns on/off the VCR
TV: Turns on/off the TV set
- 3 Mode selector
SONY STD: To control the operations of the equipment manufactured by Sony.
USER STD: To control the programmed operation if there is any operation programmed under a key, or to control the Sony equipment operation if there is no operation programmed under it.
- 4 LEARN: To program the signals of other infrared remote commanders under the keys of the programmable commander.

Note
Pressing the ● and ▶ buttons sets the VCR to the recording mode. For some Sony VCRs, pressing the ● button sets the VCR to recording pause mode.
At that time, press the ■ button to set to the recording mode.

Installing Batteries



Notes on batteries

Battery life
About a half year of normal operation can be expected when using the Sony SUM-3 (NS) batteries.
When the batteries are exhausted, the remote commander cannot operate the unit or programming is not possible. If this happens, replace four batteries with new ones.

To avoid battery leakage

When the commander is not to be used for a long time, remove the batteries to avoid damage caused by battery leakage and corrosion.

After removing of POWER TRANSISTOR, check the following transistors to prevent from another damaging of POWER TRANSISTOR replaced.

Q501, 503 ~ 507, 509 ~ 512,
Q601, 603 ~ 607, 609 ~ 612.

Note: When POWER TRANSISTOR or the transistors above are replaced, perform this adjustment.

DC BIAS Adjustment

Setting:

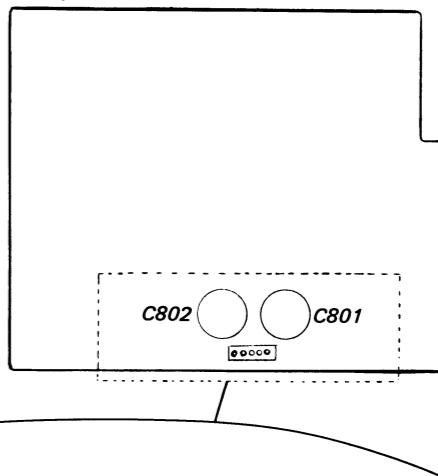
With no signal input (without DUMMY LOAD)
VOLUME control: minimum

Procedure:

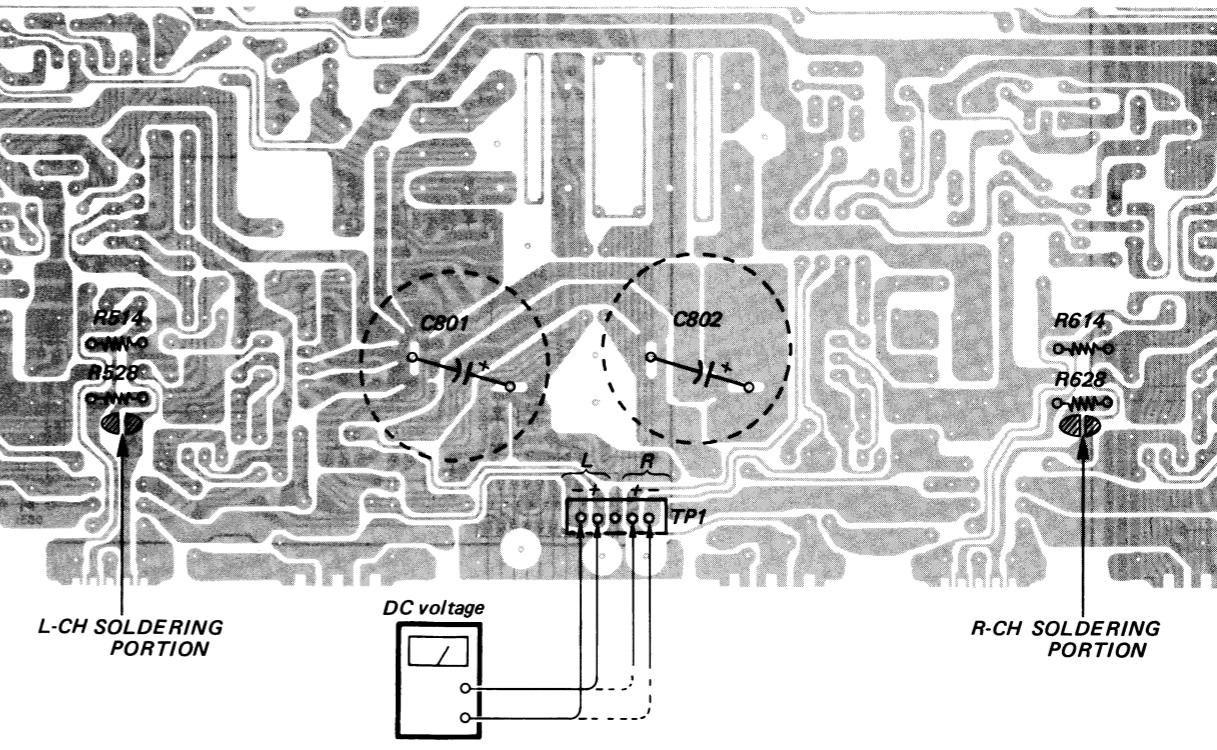
1. Connect the DC millivoltmeter to TP1.
2. Turn on the power of the set and wait for a few minutes for warm-up.

Adjustment point	Reading on DC millivoltmeter	
TP1	less than 5mV	normal (no adjustment)
TP1	more than 5mV	Re-solder the soldering portion: R528, R628 R514, R614 Parallel Parallel

MAIN BOARD
[Component Side]



Adjustment Location: MAIN BOARD



SECTION 2 ADJUSTMENTS

After removing of POWER TRANSISTOR, check the following transistors to prevent from another damaging of POWER TRANSISTOR replaced.

Q501, 503 ~ 507, 509 ~ 512,
Q601, 603 ~ 607, 609 ~ 612.

Note: When POWER TRANSISTOR or the transistors above are replaced, perform this adjustment.

DC BIAS Adjustment

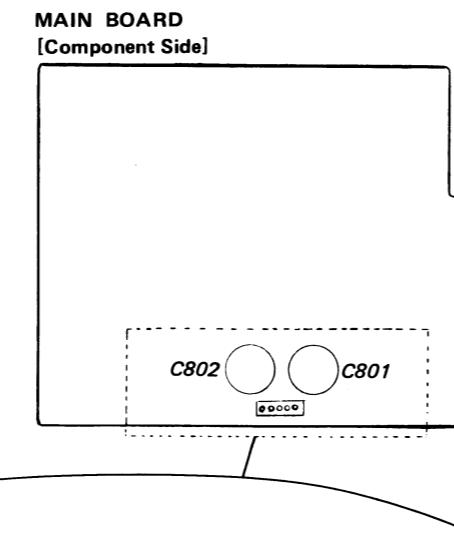
Setting:

With no signal input (without DUMMY LOAD)
VOLUME control: minimum

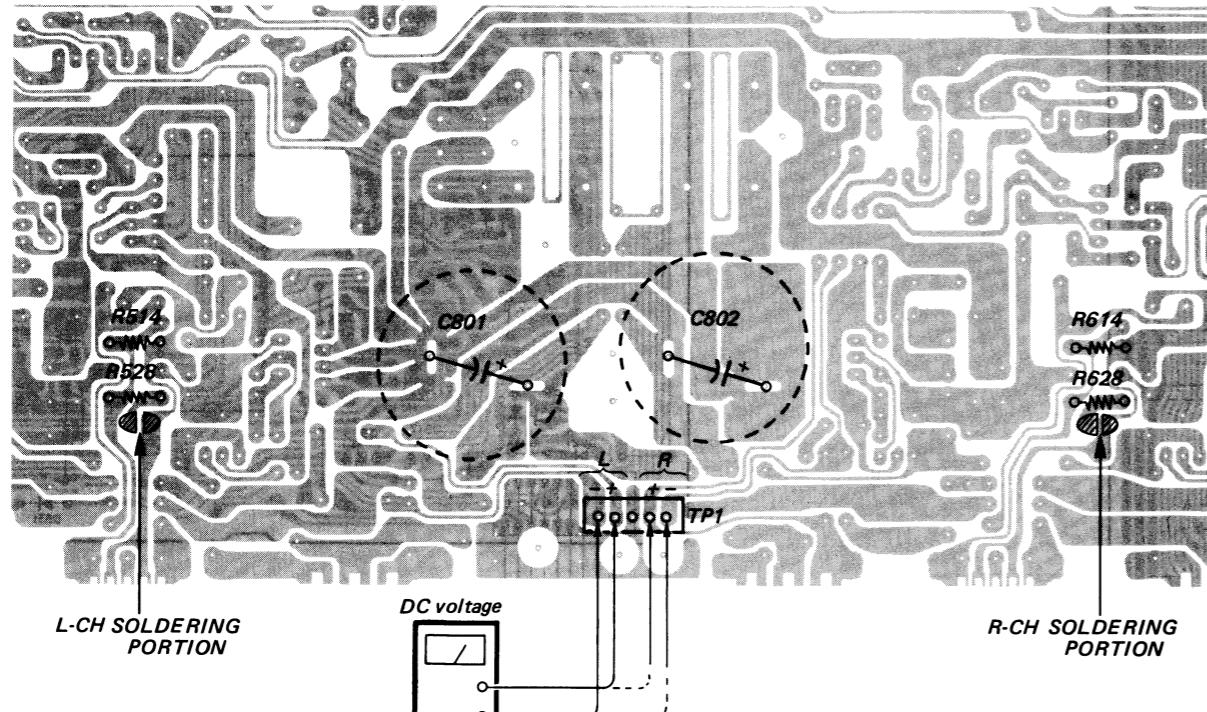
Procedure:

1. Connect the DC millivoltmeter to TP1.
2. Turn on the power of the set and wait for a few minutes for warm-up.

Adjustment point	Reading on DC millivoltmeter	
TP1	less than 5mV	normal (no adjustment)
TP1	more than 5mV	Re-solder the soldering portion: R528, R628 R514, R614 Parallel Parallel



Adjustment Location: MAIN BOARD

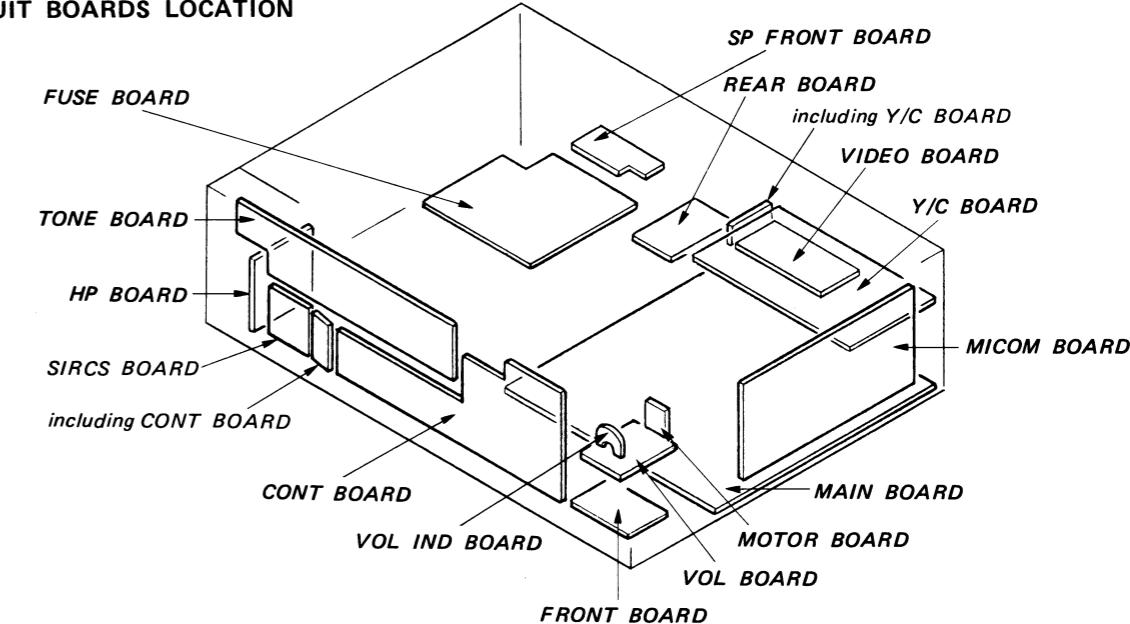


SECTION 3 DIAGRAMS

3-1. SEMICONDUCTOR LEAD LAYOUTS

MN-3007 MN-3101	M50720-401SP	M5F7909	DTA114ES DTA124ES DTC114ES DTC124ES 2SD1387	RBV-402-01	SEL2210S SEL2910A
M4066BP	M5218L μPC1237HA	2SB1014	2SA985A 2SA1383 2SC2275A 2SC3514	US1060M US1090M UZL-6L2 10E2N	SEL2510C
NE646N TC4052BP	M5F7809	2SC1847 2SC3622A 2SD1388	2SA979	D300	SEL4925A-C
LC7822	STK-4026	2SA988	2SA1175 2SC2785	S1VB10	

• CIRCUIT BOARDS LOCATION



3-2. PRINTED WIRING BOARDS

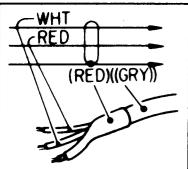
- Video Section -

● Semiconductor Location (Control)

Ref. No.	Location	Ref. No.	Location
D50	F-5	Q52	F-4
D51	F-5	Q53	H-4
D807	B-6	Q54	I-4
D900	H-12	Q55	H-4
D901	I-12	Q56	K-3
D902	C-9	Q57	K-3
D903	C-10	Q58	J-3
D904	C-11	Q900	H-13
D905	C-12	Q901	H-13
D906	B-9	Q902	H-13
D907	B-10	Q903	H-13
D908	B-11	Q904	I-13
D909	B-12	Q905	I-13
D910	B-13	Q906	G-12
D911	B-14	Q907	F-12
D912	B-15	Q908	G-12
D913	B-16	Q909	G-12
D914	B-13	Q910	H-12
D915	C-13	Q911	H-12
D916	H-9	Q912	H-12
D917	H-9	Q913	H-12
D918	I-10	Q914	H-12
D919	D-15	Q915	H-12
D920	I-9	Q916	H-10
D921	I-9	Q917	I-10
D922	I-14	Q920	I-9
D923	C-14	Q921	I-9
D924	C-15	Q922	I-12
D925	C-16	Q923	G-10
D931	J-12	Q924	G-10
-	-	Q925	G-9
IC50	I-4	Q926	G-9
IC51	F-5	Q927	H-14
IC900	H-11	Q928	I-14
IC901	B-5	Q929	G-10
-	-	Q930	F-13
Q50	F-4	Q999	I-10
Q51	F-4		

Note:

- Color code or sleeving over the end of the jacket.



- — : parts extracted from the component side.

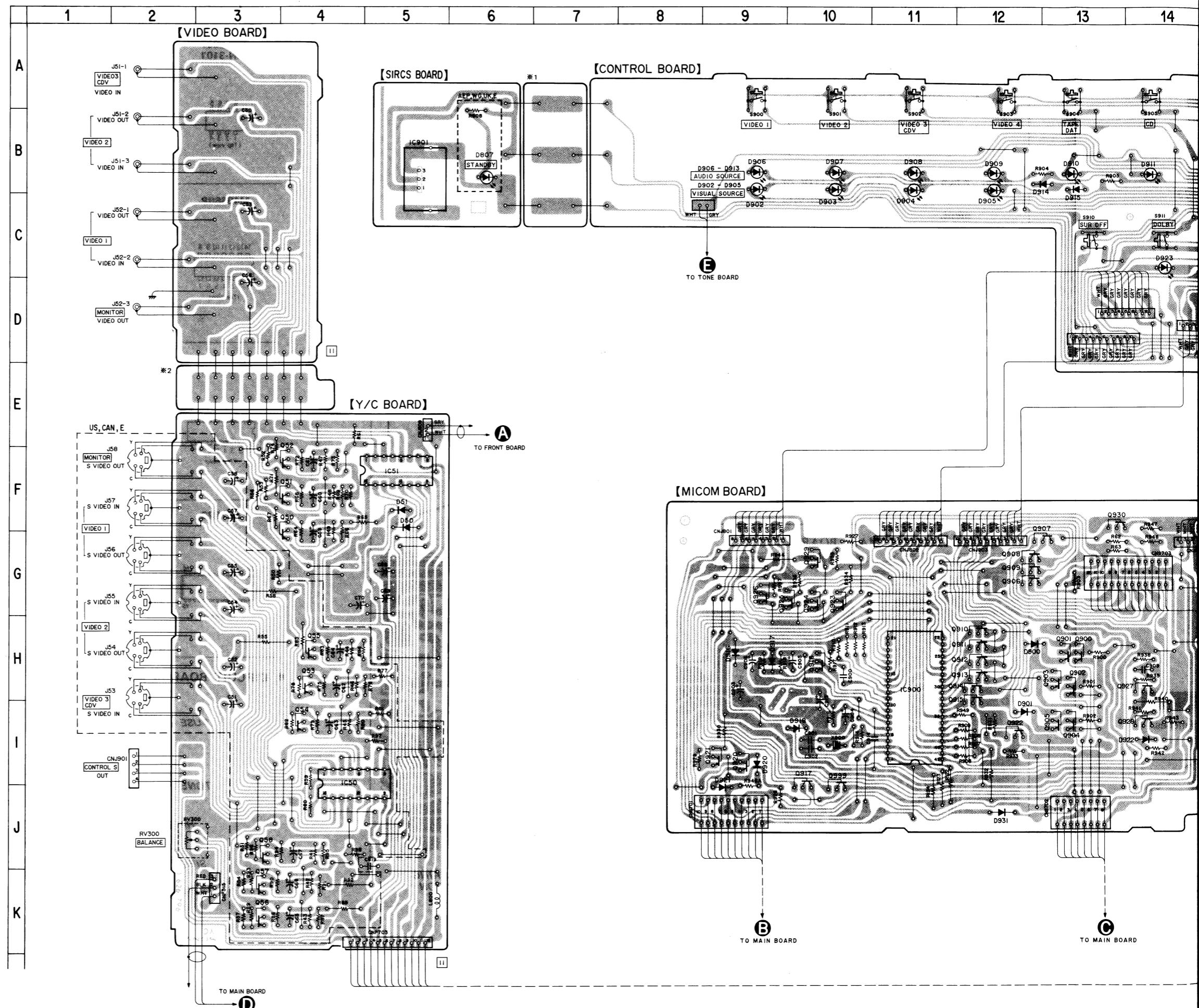
- ● : parts extracted from the conductor side.

- CAN: Canadian

- WG: West Germany

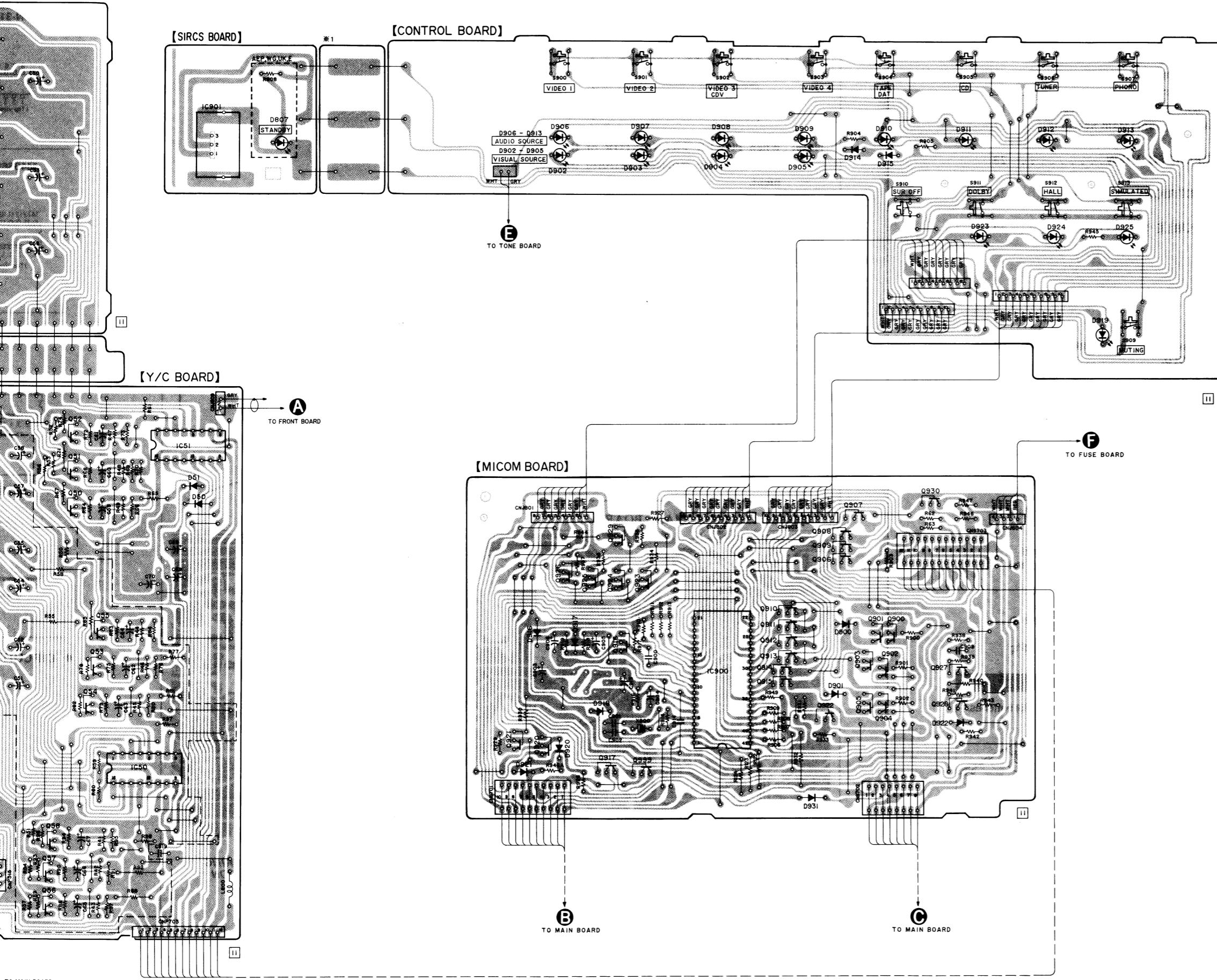
*1 Including CONTROL BOARD

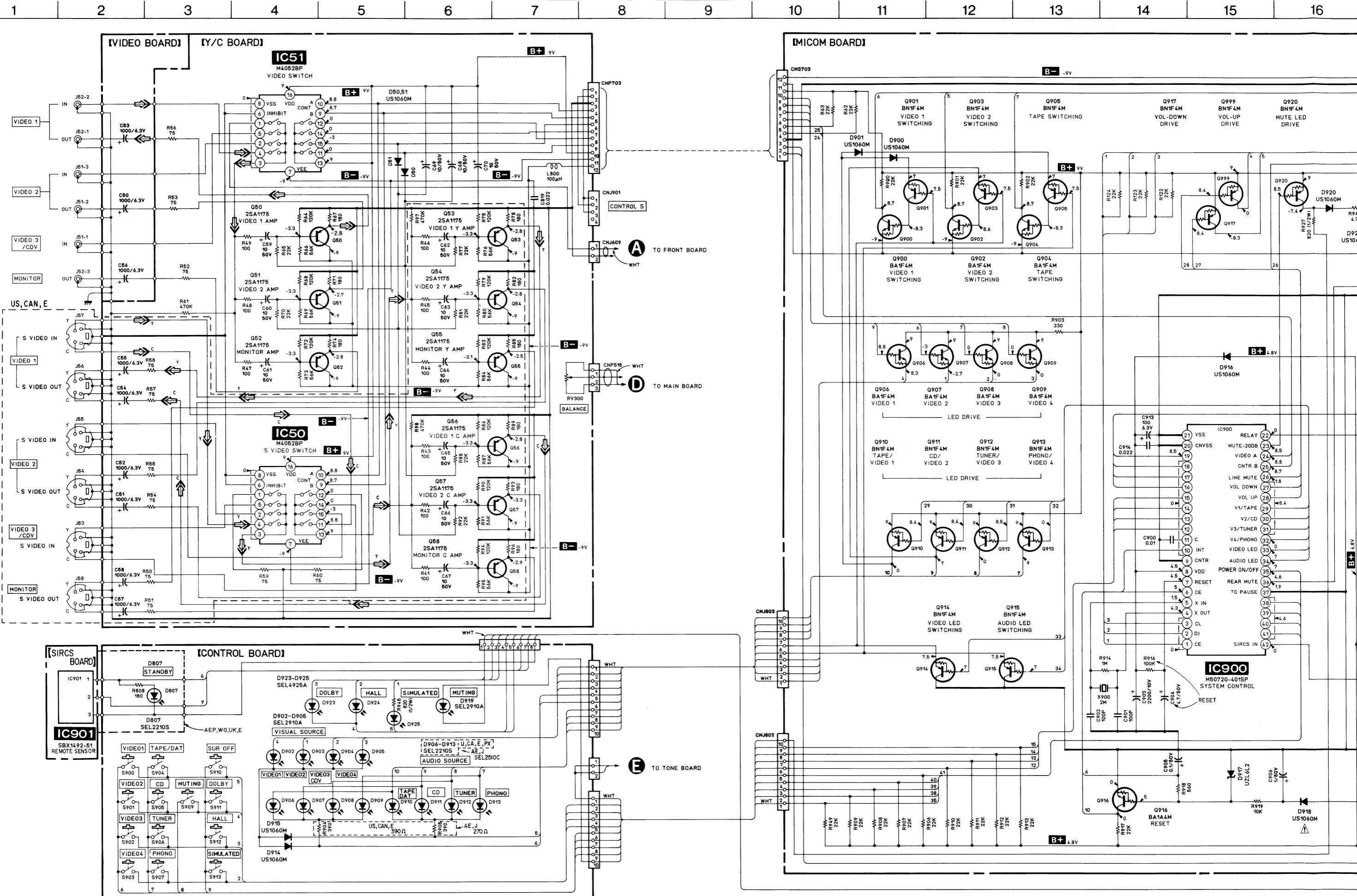
*2 Including Y/C BOARD

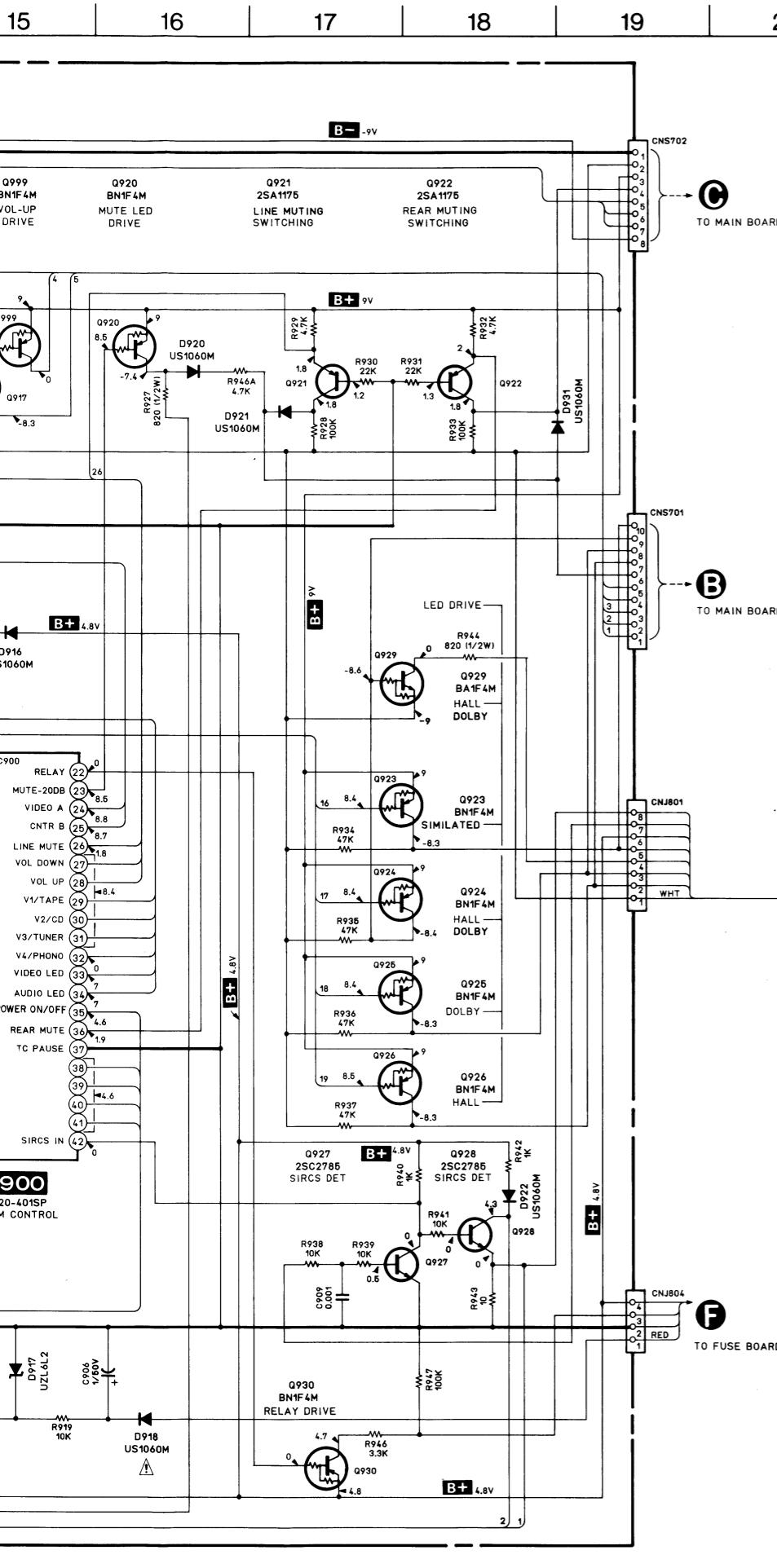


3 4 5 6 7 8 9 10 11 12 13 14 15 16

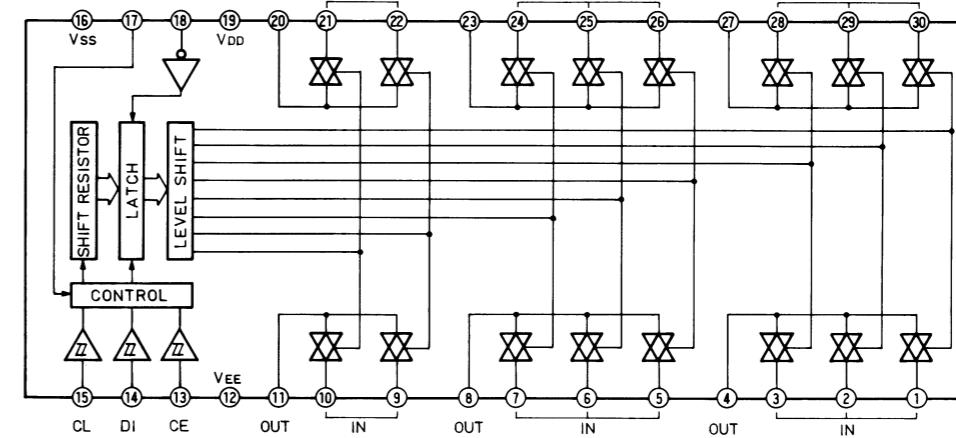
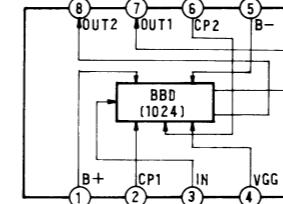
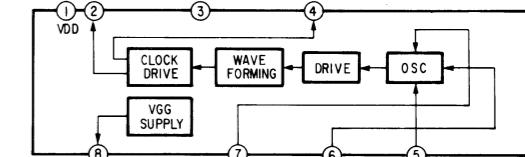
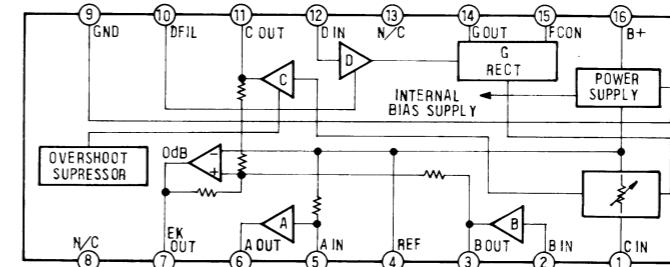
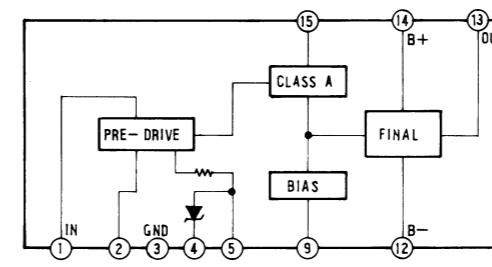
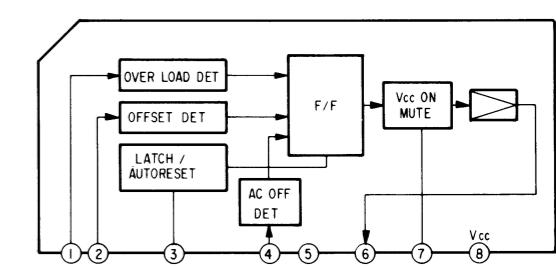
BOARD







3-4. IC BLOCK DIAGRAM

IC101
LC7822IC452
MN3007IC453
MN3101IC455
NE646NIC700
STK4026IC701
μPC1237HA

3-5. PRINTED WIRING BOARDS

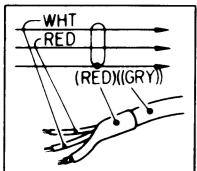
-Main Section-

● Semiconductor Location (Main)

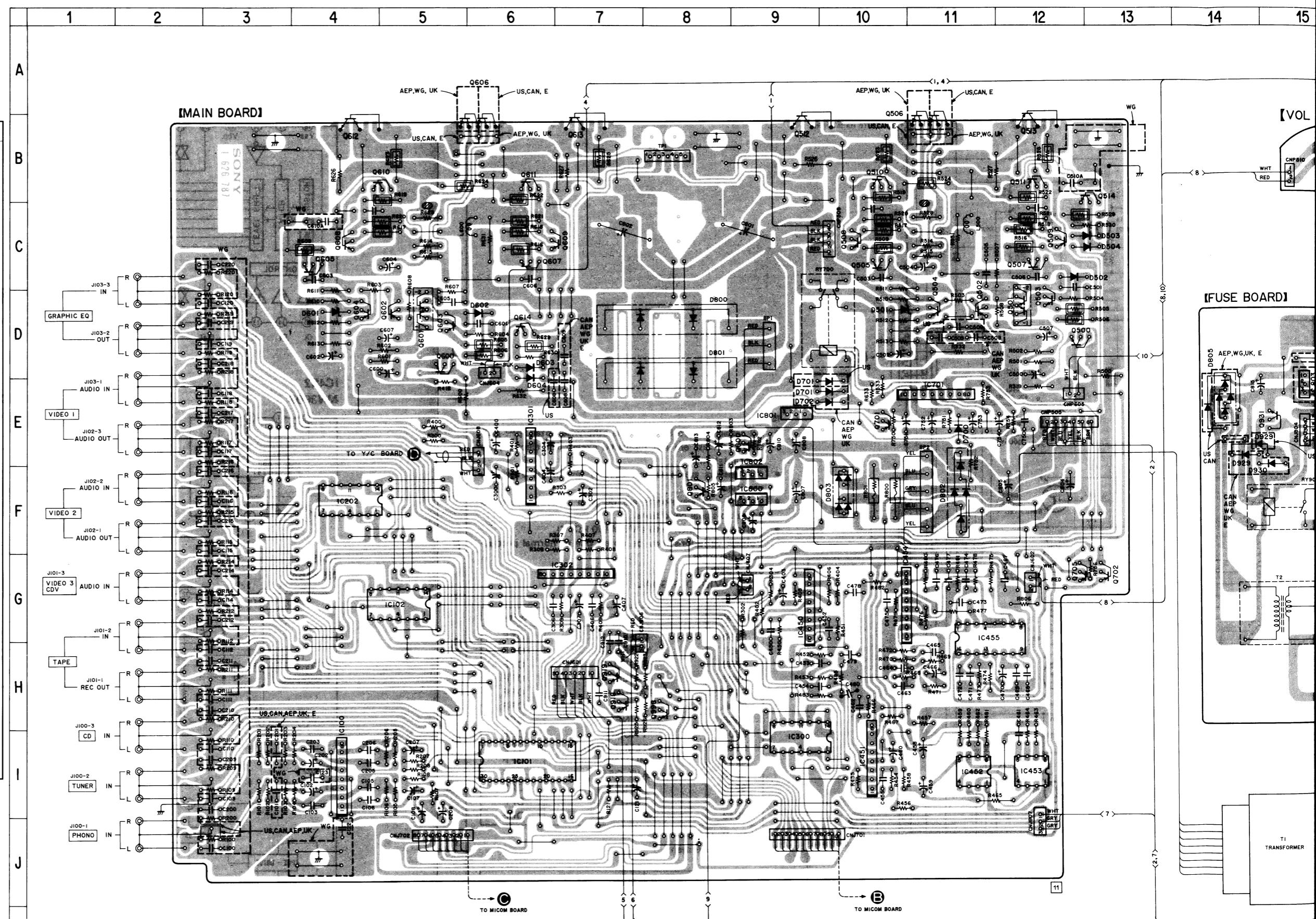
Ref. No.	Location	Ref. No.	Location
D502	C-13	Q500	D-12
D503	C-13	Q501	D-12
D504	C-13	Q502	D-12
D601	D-4	Q503	D-12
D602	D-6	Q504	D-11
D603	E-7	Q505	C-10
D604	E-6	Q506	B-11
D700	E-11	Q507	C-12
D701	E-10	Q508	C-10
D702	E-10	Q509	C-12
D703	G-25	Q510	B-10
D704	H-26	Q511	C-12
D729	E-15	Q512	B-12
D800	D-9	Q513	B-12
D801	D-9	Q514	B-13
D802	F-11	Q600	D-5
D803	F-10	Q601	D-5
D804	B-16	Q602	D-5
D805	E-14	Q603	D-5
D806	E-16	Q604	D-4
D929	E-15	Q605	C-4
D930	F-15	Q606	A-6
-	-	Q607	C-7
IC100	I-4	Q608	C-4
IC101	I-6	Q609	C-7
IC102	G-5	Q610	B-5
IC202	F-4	Q611	B-6
IC300	I-9	Q612	B-4
IC301	E-6	Q613	B-4
IC302	G-7	Q614	D-6
IC303	C-26	Q700	G-26
IC450	G-9	Q701	E-10
IC451	I-10	Q702	G-13
IC452	I-11	Q703	H-26
IC453	I-12	Q704	H-25
IC454	G-10	Q705	G-13
IC455	G-11	Q800	E-9
IC700	G-25	Q801	F-8
IC701	E-11	Q802	E-16
IC800	F-9	Q918	H-7
IC801	E-9	Q919	H-7
IC802	F-9	Q931	E-15
IC803	E-15	Q998	H-8

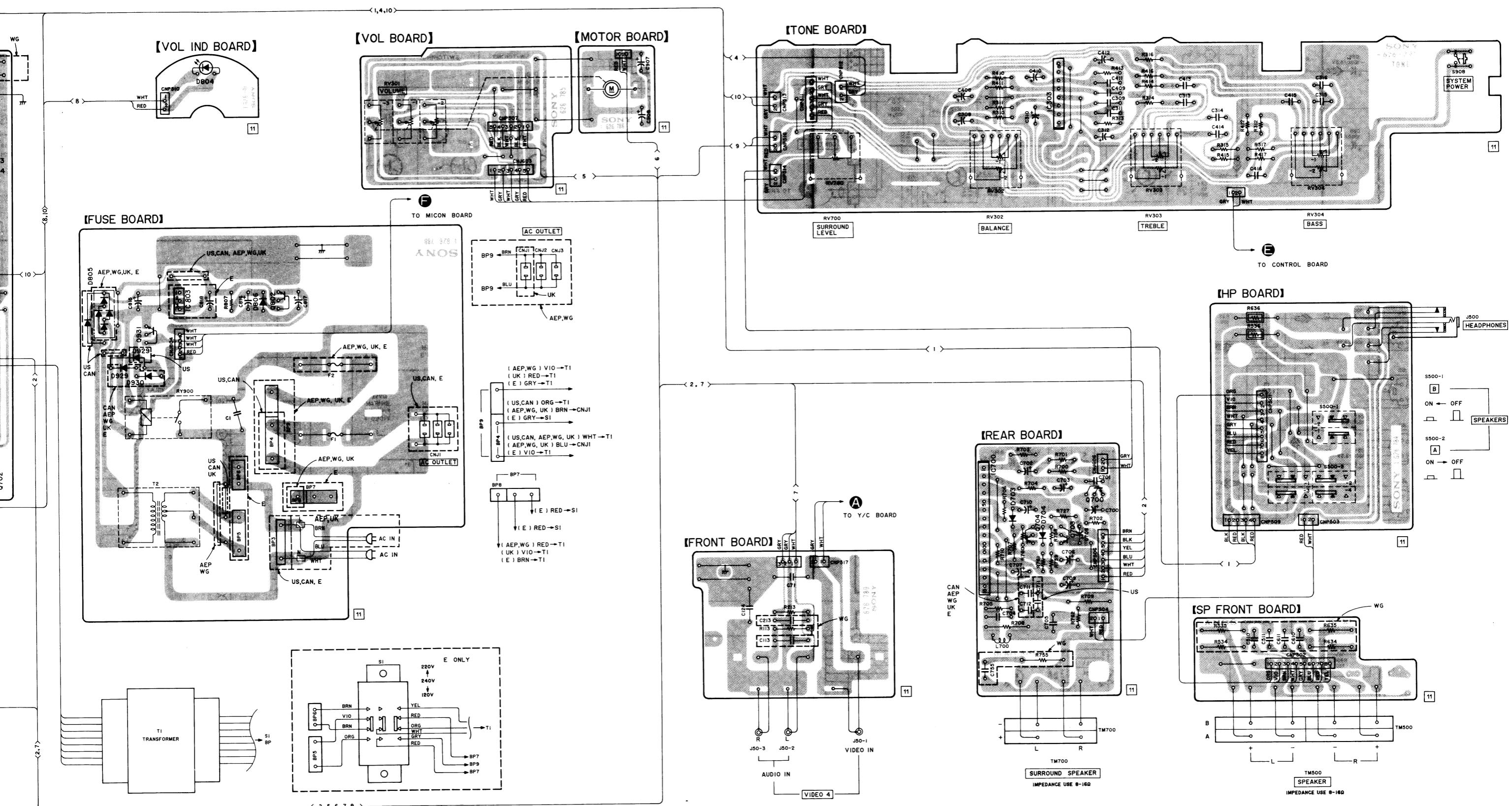
Note:

- Color code or sleeving over the end of the jacket.



- parts extracted from the component side.
- parts extracted from the conductor side.
- CAN: Canadian
- WG: West Germany

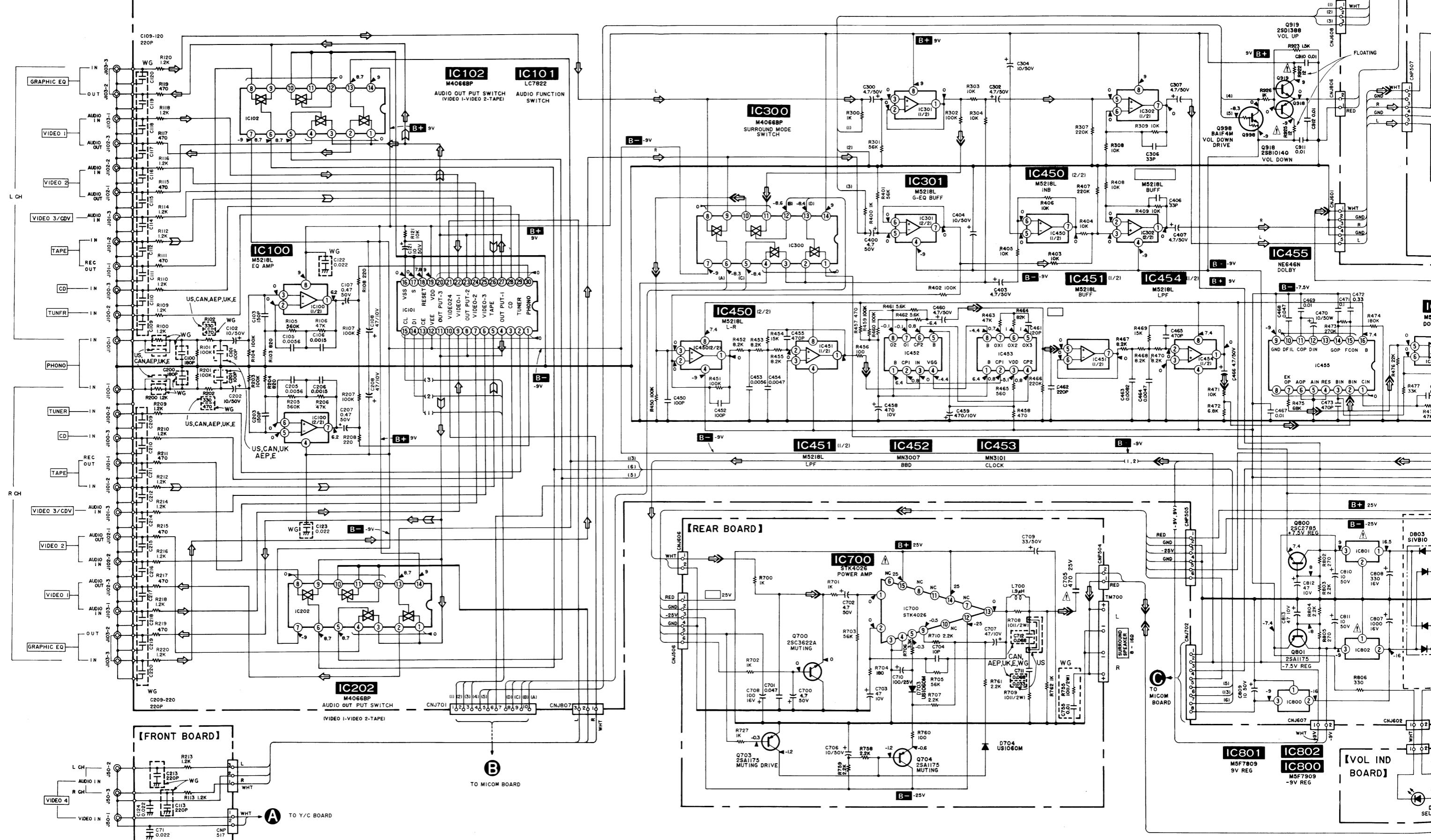


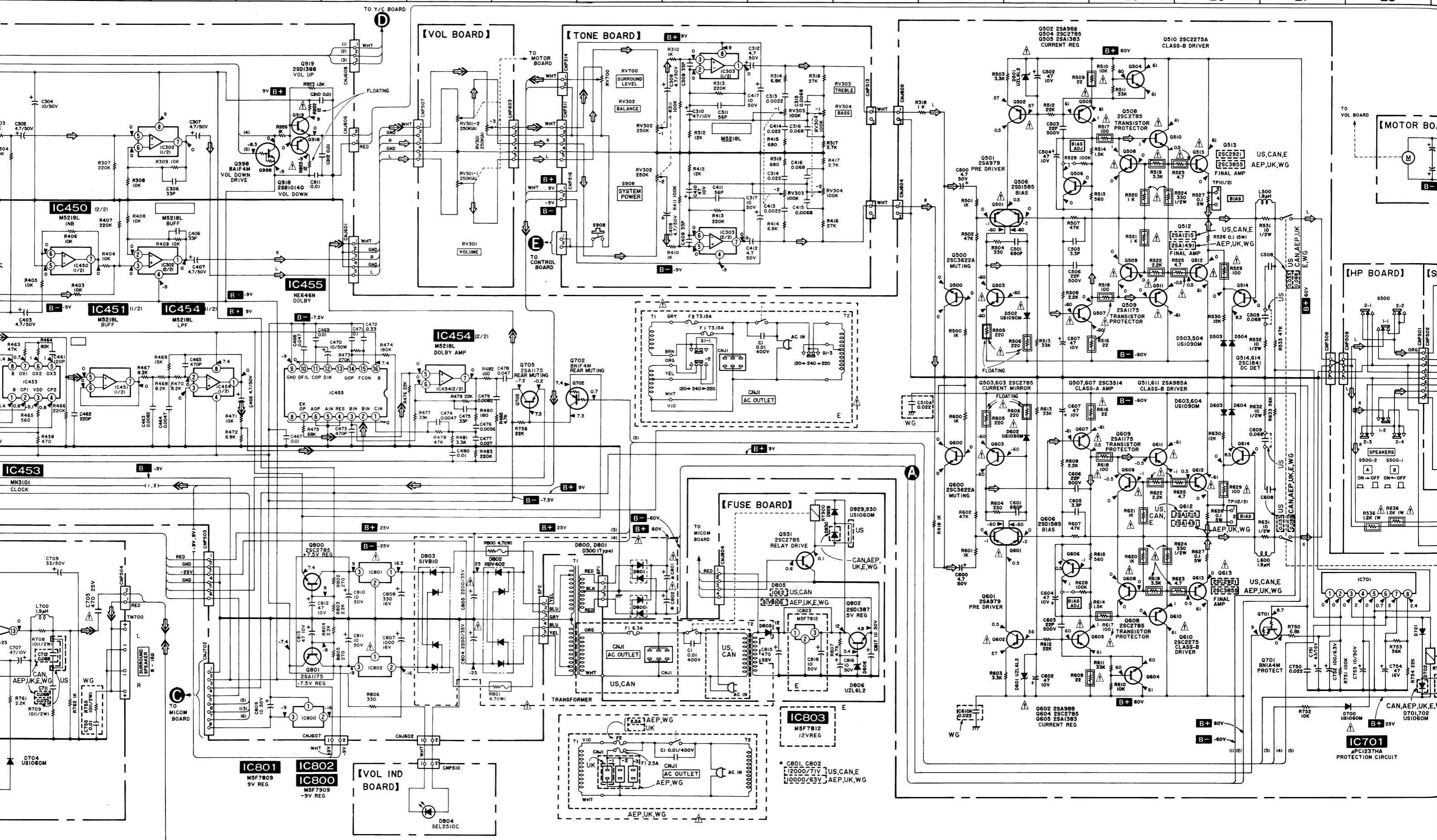


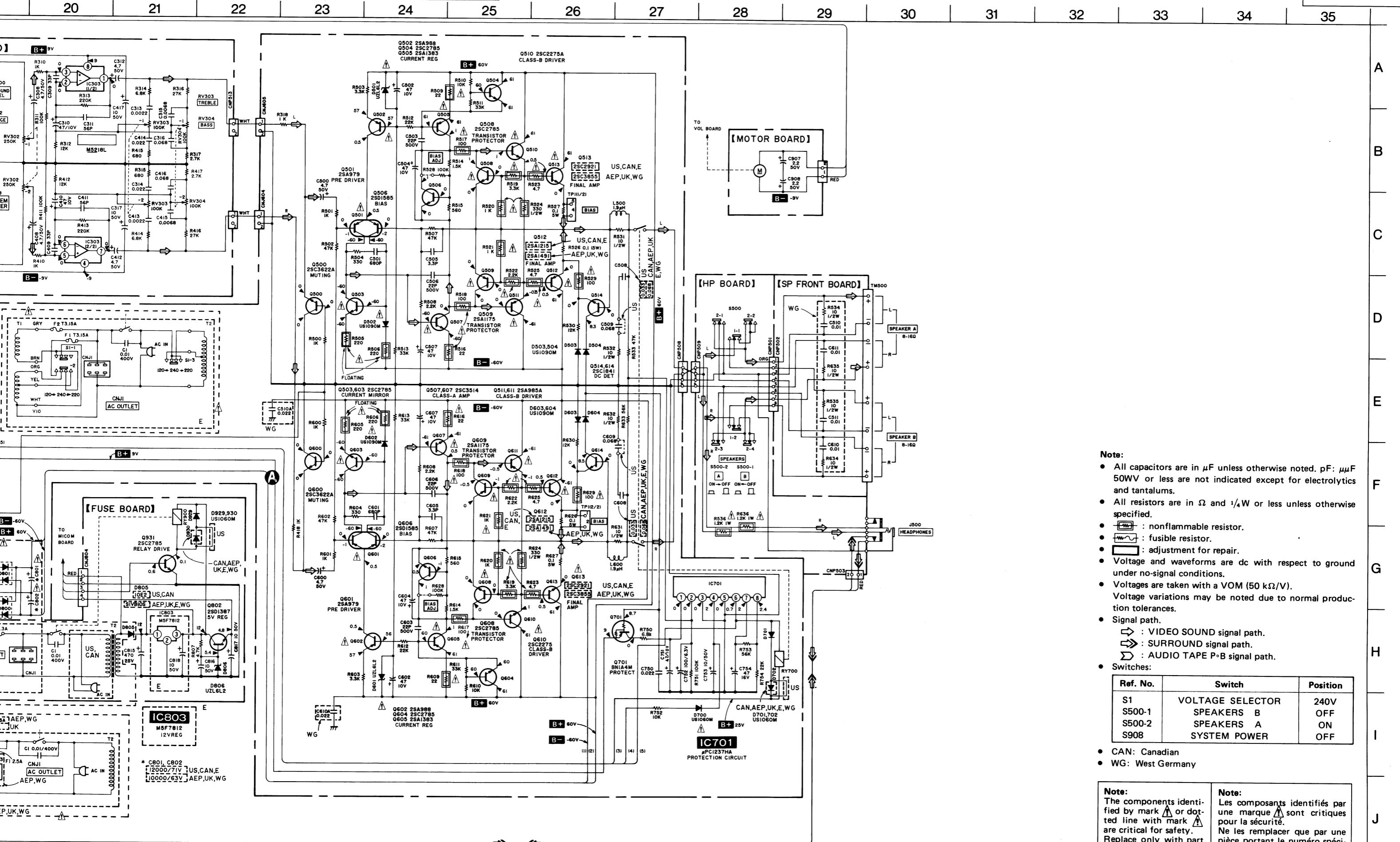
3-6. SCHEMATIC DIAGRAM

—Main Section—

【MAIN BOARD】







Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (50 k Ω /V). Voltage variations may be noted due to normal production tolerances.
- Signal path.
 - : VIDEO SOUND signal path.
 - : SURROUND signal path.
 - : AUDIO TAPE P-B signal path.
- Switches:

Ref. No.	Switch	Position
S1	VOLTAGE SELECTOR	240V
S500-1	SPEAKERS B	OFF
S500-2	SPEAKERS A	ON
S908	SYSTEM POWER	OFF

- CAN: Canadian
- WG: West Germany

Note:
The components identified by mark or dotted line with mark are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 4

EXPLODED VIEWS

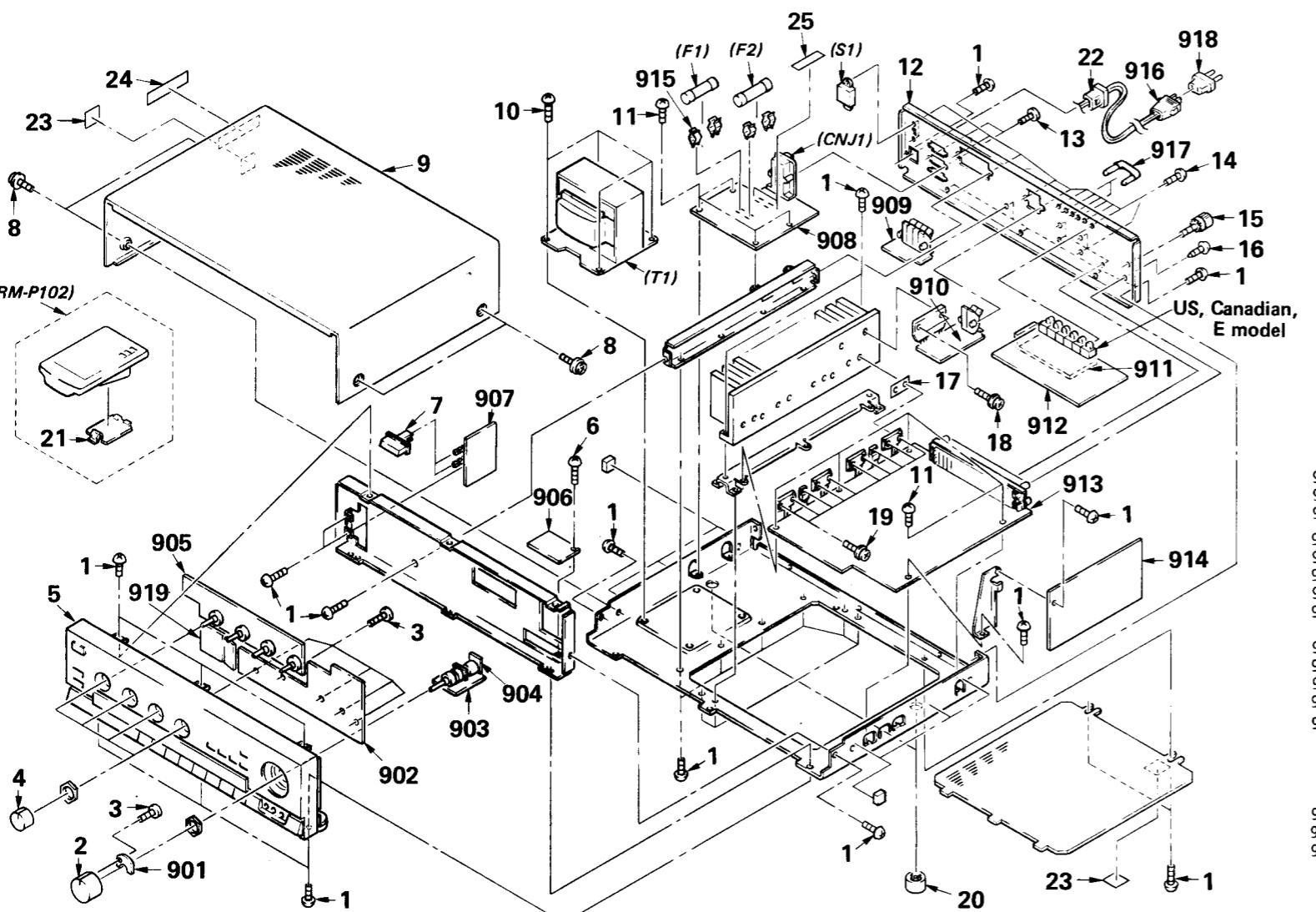
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked “★” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
(RED)...KNOB, BALANCE (WHITE)
↑ ↑
Cabinet's Color Parts' Color

The components identified by mark **▲** or dotted line with mark **▲** are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque **▲** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

1. GENERAL



No.	Part No.	Description	Remarks
1	7-682-548-04	SCREW +BVTT 3X8 (S)	
2	4-925-121-01	KNOB (V2)	
3	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
4	4-916-746-01	KNOB (DIA.21)	
5	X-4904-488-1	PANEL ASSY, FRONT	
6	7-682-147-01	SCREW +BVTT 3X6 (S)	
7	4-924-901-01	BUTTON (M)	
8	3-704-366-01	SCREW (CASE) (M3X8)	
9	4-925-039-11	CASE	
10	7-682-560-04	SCREW +BVTT 4X6 (S)	
11	7-682-548-04	SCREW, TOTSU PTTWH 3X8	
12	*4-921-343-11	(Canadian)...PANEL, BACK	
	*4-921-343-21	(AEP).....PANEL, BACK	
	*4-921-343-41	(WG).....PANEL, BACK	
	*4-921-343-51	(UK).....PANEL, BACK	
	*4-921-343-61	(E).....PANEL, BACK	
13	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
14	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
15	*3-706-165-00	SCREW	
16	4-909-982-01	SCREW, TAPPING	
17	4-885-901-31	(US,Canadian,E)...SHEET, RADIATION	
	4-911-232-01	(AEP,UK,WG).....SHEET, INSULATING	
18	7-682-550-04	SCREW (M3X12), TAPPING	
19	4-925-027-11	SCREW (MBX16), TAPPING	
20	X-4864-303-01	FOOT ASSY	
21	4-922-048-01	COVER, BATTERY	
22	3-703-244-02	(US,Canadian,AEP,UK,WG) ...BUSHING (2104), CORD	
	3-703-571-11	(E).....BUSHING (S) (4516), CORD	
23	3-703-680-02	(US)...LABEL, CAUTION, SUB, NEW UL	
24	4-915-702-01	LABEL, CAUTION, DOLBY SURROUND	
25	3-701-947-16	(E,UK)....LABEL, FUSE	
	3-701-948-01	(AEP,WG)...LABEL, FUSE	
901	*1-626-790-11	PC BOARD, VOL IND	
902	*1-626-792-11	PC BOARD, CONT	
903	*1-626-785-11	PC BOARD, VOL	
904	*1-626-786-11	PC BOARD, MOTOR	
905	*1-626-791-11	PC BOARD, TONE	
906	*1-626-789-11	PC BOARD, FRONT	
907	*1-626-784-11	PC BOARD, HP	
908	*1-626-788-11	PC BOARD, FUSE	
909	*1-626-783-11	PC BOARD, SP FRONT	
910	*1-626-782-11	PC BOARD, REAR (B)	
911	*1-626-793-11	PC BOARD, VIDEO	
912	*A-4410-819-A	(US,Canadian)...MOUNTED PCB, Y/C	
913	*A-4388-752-A	(US).....MOUNTED PCB, MAIN	
	*A-4388-753-A	(Canadian,E)....MOUNTED PCB, MAIN	
	*A-4388-754-A	(WG).....MOUNTED PCB, MAIN	
	*A-4388-759-A	(AEP,UK).....MOUNTED PCB, MAIN	
914	*A-4410-780-A	MOUNTED PCB, MICOM	
915	▲.1-533-183-11	(AEP,UK,E,WG)....HOLDER, FUSE	
916	▲.1-551-188-XX	(E).....CORD, POWER	
	▲.1-558-944-11	(AEP,WG).....CORD, POWER	
	▲.1-558-946-11	(UK).....CORD, POWER	
	▲.1-559-819-11	(US,Canadian)....CORD, POWER	
917	▲.1-535-706-11	PLUG, JUMPER	
918	▲.1-526-565-00	AC PLUG ADAPTOR	
919	▲.1-626-795-11	PC BOARD, SIRCS	
CNJ1	▲.1-526-794-11	(AEP,WG).....OUTLET, AC	
CNJ1	▲.1-526-751-11	(UK).....OUTLET, AC	
CNJ1	▲.1-540-012-11	(US,Canadian,E)....OUTLET, AC	
F1	▲.1-532-237-00	(AEP,UK,E,WG)...FUSE, TIME-LAG (3.15A)	
F1	▲.1-532-748-00	(US,Canadian)....FUSE (6.3A)	
F2	▲.1-532-237-00	(E).....FUSE, TIME-LAG (3.15A)	
F2	▲.1-532-286-00	(AEP,UK,WG)....FUSE, TIME-LAG (2.15A)	
S1	▲.1-571-515-11	(E)....VOLTAGE SELECTOR	
T1	▲.1-449-265-11	(US,Canadian)...TRANSFORMER, POWER	
T1	▲.1-449-300-11	(AEP,UK,WG)....TRANSFORMER, POWER	
T1	▲.1-449-301-11	(E).....TRANSFORMER, POWER	

SECTION 5

ELECTRICAL PARTS

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked “★” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μ F, PF: $\mu\mu$ F.

RESISTORS:
• All resistors are in ohm.

COILS:
• MMH: mH, UH: μ H

SEMICONDUCTORS:
In each case, U: μ A, for
UA...: μ A..., UPA...:
UPC...: μ PC, UPD...: μ PD...

Ref.No.	Part No.	Description	Ref.No.
901	*1-626-790-11	PC BOARD, VOL IND	C56
902	*1-626-792-11	PC BOARD, CONT	C57
903	*1-626-785-11	PC BOARD, VOL	C58
904	*1-626-786-11	PC BOARD, MOTOR	C59
905	*1-626-791-11	PC BOARD, TONE	C60
906	*1-626-789-11	PC BOARD, FRONT	C61
907	*1-626-784-11	PC BOARD, HP	C62
908	*1-626-788-11	PC BOARD, SP FRONT	C63
910	*1-626-782-11	PC BOARD, REAR (B)	C64
911	*1-626-793-11	PC BOARD, VIDEO	C65
912	*A-4410-819-A	(US,Canadian)...MOUNTED PCB, Y/C	C66
913	*A-4388-752-A	(US).....MOUNTED PCB, MAIN	C67
	*A-4388-753-A	(Canadian,E)....MOUNTED PCB, MAIN	C68
	*A-4388-754-A	(WG).....MOUNTED PCB, MAIN	C69
	*A-4388-759-A	(AEP,UK).....MOUNTED PCB, MAIN	C70
914	*A-4410-780-A	MOUNTED PCB, MICOM	C71
915	▲.1-533-183-11	(AEP,UK,E,WG)....HOLDER, FUSE	C72
916	▲.1-551-188-XX	(E).....CORD, POWER	C73
	▲.1-558-944-11	(AEP,WG).....CORD, POWER	C74
	▲.1-558-946-11	(UK).....CORD, POWER	C75
	▲.1-559-819-11	(US,Canadian)....CORD, POWER	C76
917	▲.1-535-706-11	PLUG, JUMPER	C77
918	▲.1-526-565-00	AC PLUG ADAPTOR	C78
919	▲.1-626-795-11	PC BOARD, SIRCS	C79
BP1	*1-535-116-00	TERMINAL 3P	C80
BP2	*1-535-118-00	TERMINAL 5P	C81
BP3	*1-535-139-00	(US,Canadian,E)....BASE POST 22MM (10MM PITCH) 2P	C82
BP4	*1-535-139-00	(US,Canadian)...TERMINAL 2P	C83
BP5	*1-535-139-00	(E)...TERMINAL 2P	C84
BP6	*1-535-115-00	(E)....TERMINAL 2P	C85
BP7	*1-535-116-00	(E)....TERMINAL 3P	C86
BP8	*1-535-114-00	(AEP,UK,WG)....TERMINAL 3P	C87
BP9	*1-535-140-00	(AEP,UK,E,WG)...BASE POST 22MM (10MM PITCH) 3P	C88
C1	▲.1-161-744-00	CERAMIC	C89
C50	1-124-471-00	ELECT	C90
C51	1-124-471-00	(US,Canadian,E) ...ELECT	C91
		1000MF	C92
		20%	C93
		6.3V	C94
C52	1-124-471-00	(US,Canadian,E)	C95
C53	1-124-471-00	ELECT	C96
		1000MF	C97
		20%	C98
		6.3V	C99
C54	1-124-471-00	(US,Canadian,E) ...ELECT	C100
		1000MF	C101
		20%	C102
		6.3V	C103
C55	1-124-471-00	(US,Canadian,E) ...ELECT	C104
		1000MF	C105
		20%	C106
		6.3V	C107
		20%	C108
		6.3V	C109
		20%	C110
		6.3V	C111
		20%	C112
		6.3V	C113
		20%	C114
		6.3V	C115
		20%	C116
		6.3V	C117
		20%	C118
		6.3V	C119
		20%	C120
		6.3V	C121
		20%	C122
		6.3V	C123
		20%	C124
		6.3V	C200
		20%	C201

SECTION 5

ELECTRICAL PARTS LIST

placements in the parts
in the parts specified in
components used on the set.
not stocked since they
routine service. Some
ed when ordering these
same circuits in a set
machine, only typical
ated and capacitors and
rcuits may be omitted.

CAPACITORS:
MF: μ F, PF: μ PF.
RESISTORS
• All resistors are in ohms.
• F: nonflammable

COILS
• MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
UA...: μ A..., UPA...: μ PA...,
UPC...: μ PC, UPD...: μ PD...

The components identified by
mark Δ or dotted line with mark
 Δ are critical for safety.
Replace only with part number
specified.

Les composants identifiés par une
marque Δ sont critiques pour la
sécurité.
Ne les remplacer que par une
pièce portant le numéro spécifié.

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
C202	1-123-875-11	ELECT 10MF 20% 50V	C462	1-162-286-31	CERAMIC 220PF 10% 50V	C705	1-126-407-51	ELECT 470MF
C203	1-162-284-31	CERAMIC 150PF 10% 50V	C463	1-130-482-00	MYLAR 0.0082MF 5% 50V	C706	1-123-875-11	ELECT 10MF
C205	1-130-480-00	MYLAR 0.0056MF 5% 50V	C464	1-130-479-00	MYLAR 0.0047MF 5% 50V	C707	1-124-446-11	ELECT 47MF
C206	1-130-473-00	MYLAR 0.0015MF 5% 50V	C465	1-162-290-31	CERAMIC 470PF 10% 50V	C708	1-126-101-11	ELECT 100MF
C207	1-124-902-00	ELECT 0.47MF 20% 50V	C466	1-124-927-11	ELECT 4.7MF 20% 50V	C709	1-124-917-11	ELECT 33MF
C208	1-124-446-11	ELECT 47MF 20% 10V	C467	1-161-379-00	CERAMIC 0.01MF 20% 16V	C710	1-124-478-11	ELECT 100MF
C209	1-162-286-31	(WG)...CERAMIC 220PF 10% 50V	C468	1-136-161-00	FILM 0.047MF 5% 50V	C711	1-136-159-00	(US)...FILM 0.03
C210	1-162-286-31	(WG)...CERAMIC 220PF 10% 50V	C469	1-161-379-00	CERAMIC 0.01MF 20% 16V	C711	1-136-163-00	(Canadian,AEP,UK,E,WG ...FILM 0.06
C211	1-162-286-31	(WG)...CERAMIC 220PF 10% 50V	C470	1-123-875-11	ELECT 10MF 20% 50V			
C212	1-162-286-31	(WG)...CERAMIC 220PF 10% 50V	C471	1-136-165-00	FILM 0.1MF 5% 50V	C712	1-136-163-00	(Canadian,AEP,UK,E,WG ...FILM 0.06
C213	1-162-286-31	(WG)...CERAMIC 220PF 10% 50V	C472	1-136-171-00	FILM 0.33MF 5% 50V	C750	1-161-494-00	CERAMIC 0.022MF
C214	1-162-286-31	(WG)...CERAMIC 220PF 10% 50V	C473	1-162-290-31	CERAMIC 470PF 10% 50V	C751	1-124-446-11	ELECT 47MF
C215	1-162-286-31	(WG)...CERAMIC 220PF 10% 50V	C474	1-130-479-00	MYLAR 0.0047MF 5% 50V	C752	1-124-443-00	ELECT 100MF
C216	1-162-286-31	(WG)...CERAMIC 220PF 10% 50V	C475	1-162-211-31	CERAMIC 33PF 5% 50V	C753	1-123-875-11	ELECT 10MF
C217	1-162-286-31	(WG)...CERAMIC 220PF 10% 50V	C476	1-130-480-00	MYLAR 0.0056MF 5% 50V			
C218	1-162-286-31	(WG)...CERAMIC 220PF 10% 50V	C477	1-136-158-00	FILM 0.027MF 5% 50V	C754	1-124-477-11	ELECT 47MF
C219	1-162-286-31	(WG)...CERAMIC 220PF 10% 50V	C478	1-136-161-00	FILM 0.047MF 5% 50V	C755	1-136-153-00	(WG)...FILM 0.01M
C220	1-162-286-31	(WG)...CERAMIC 220PF 10% 50V	C479	1-130-482-00	MYLAR 0.0082MF 5% 50V	C801	1-125-416-11	(AEP,UK,WG)...ELECT
C300	1-124-927-11	ELECT 4.7MF 20% 50V	C480	1-161-379-00	CERAMIC 0.01MF 20% 16V	C801	1-125-522-11	(US,Canadian,E) ...ELECT
C302	1-124-927-11	ELECT 4.7MF 20% 50V	C500	1-124-927-11	ELECT 4.7MF 20% 50V			
C304	1-123-875-11	ELECT 10MF 20% 50V	C501	1-162-292-31	CERAMIC 680PF 10% 50V	C802	1-125-416-11	(AEP,UK,WG)...ELECT
C306	1-162-211-31	CERAMIC 33PF 5% 50V	C502	1-124-446-11	ELECT 47MF 20% 10V	C802	1-125-522-11	(US,Canadian,E) ...ELECT
C307	1-124-927-11	ELECT 4.7MF 20% 50V	C503	1-161-959-00	CERAMIC 22PF 10% 500V			
C308	1-124-927-11	ELECT 4.7MF 20% 50V	C504	1-124-446-11	ELECT 47MF 20% 10V			
C309	1-162-211-31	CERAMIC 33PF 5% 50V	C505	1-162-193-31	CERAMIC 3.3PF 10% 50V	C804	1-124-618-11	ELECT 220MF
C310	1-124-446-11	ELECT 47MF 20% 10V	C506	1-161-959-00	CERAMIC 22PF 10% 500V	C805	1-124-618-11	ELECT 220MF
C311	1-162-217-31	CERAMIC 56PF 5% 50V	C507	1-124-446-11	ELECT 47MF 20% 10V	C807	1-124-360-00	ELECT 100MF
C312	1-124-927-11	ELECT 4.7MF 20% 50V	C508	1-136-159-00	(US)...FILM 0.033MF 5% 50V	C808	1-124-119-00	ELECT 330MF
C313	1-130-475-00	MYLAR 0.0022MF 5% 50V	C508	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM 0.068MF 5% 50V	C809	1-123-875-11	ELECT 10MF
C314	1-136-157-00	FILM 0.022MF 5% 50V	C509	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM 0.068MF 5% 50V	C811	1-123-875-11	ELECT 10MF
C315	1-130-481-00	MYLAR 0.0068MF 5% 50V	C510	1-136-153-00	(WG)...FILM 0.01MF 5% 50V	C812	1-124-446-11	ELECT 47MF
C316	1-136-163-00	FILM 0.068MF 5% 50V	C510A	1-162-596-00	(WG)...CERAMIC 0.022MF 25V	C813	1-124-446-11	ELECT 47MF
C317	1-123-875-11	ELECT 10MF 20% 50V	C511	1-136-153-00	(WG)...FILM 0.01MF 5% 50V	C815	1-124-480-11	ELECT 470MF
C400	1-124-927-11	ELECT 4.7MF 20% 50V	C600	1-124-927-11	ELECT 4.7MF 20% 50V	C816	1-123-875-11	ELECT 10MF
C403	1-124-927-11	ELECT 4.7MF 20% 50V	C601	1-162-292-31	CERAMIC 680PF 10% 50V	C817	1-123-875-11	ELECT 10MF
C404	1-123-875-11	ELECT 10MF 20% 50V	C602	1-124-446-11	ELECT 47MF 20% 10V	C818	1-123-875-11	(E)...ELECT 10MF
C406	1-162-211-31	CERAMIC 33PF 5% 50V	C603	1-161-959-00	CERAMIC 22PF 10% 500V	C819	1-161-494-00	CERAMIC 0.022MF
C407	1-124-927-11	ELECT 4.7MF 20% 50V	C604	1-124-446-11	ELECT 47MF 20% 10V	C900	1-136-153-00	FILM 0.01MF
C408	1-124-927-11	ELECT 4.7MF 20% 50V	C605	1-162-193-31	CERAMIC 3.3PF 10% 50V	C901	1-162-282-31	CERAMIC 100PF
C409	1-162-211-31	CERAMIC 33PF 5% 50V	C606	1-161-959-00	CERAMIC 22PF 10% 500V	C902	1-162-282-31	CERAMIC 100PF
C410	1-124-446-11	ELECT 4.7MF 20% 10V	C607	1-124-446-11	ELECT 47MF 20% 10V	C903	1-124-893-11	ELECT 220MF
C411	1-162-217-31	CERAMIC 56PF 5% 50V	C608	1-136-159-00	(US)...FILM 0.033MF 5% 50V	C904	1-124-927-11	ELECT 4.7MF
C412	1-124-927-11	ELECT 4.7MF 20% 50V	C608	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM 0.068MF 5% 50V	C905	1-124-463-00	ELECT 0.1MF
C413	1-130-475-00	MYLAR 0.0022MF 5% 50V	C609	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM 0.068MF 5% 50V	C906	1-124-499-11	ELECT 1MF
C414	1-136-157-00	FILM 0.022MF 5% 50V	C609	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM 0.068MF 5% 50V	C907	1-124-925-11	ELECT 2.2MF
C415	1-130-481-00	MYLAR 0.0068MF 5% 50V	C610	1-136-153-00	(WG)...FILM 0.01MF 5% 50V	C908	1-124-925-11	ELECT 2.2MF
C416	1-136-163-00	FILM 0.068MF 5% 50V	C610A	1-162-596-00	(WG)...CERAMIC 0.022MF 25V	C909	1-130-471-00	MYLAR 0.001MF
C417	1-123-875-11	ELECT 10MF 20% 50V	C611	1-136-153-00	(WG)...FILM 0.01MF 5% 50V	C910	1-161-379-00	CERAMIC 0.01MF
C450	1-162-282-31	CERAMIC 100PF 10% 50V	C612	1-124-927-11	ELECT 4.7MF 20% 50V	C911	1-161-379-00	CERAMIC 0.01MF
C452	1-162-282-31	CERAMIC 100PF 10% 50V	C613	1-124-927-11	ELECT 4.7MF 20% 50V	C912	1-161-379-00	CERAMIC 0.01MF
C453	1-130-480-00	MYLAR 0.0056MF 5% 50V	C614	1-124-446-11	ELECT 47MF 20% 10V	C913	1-124-443-00	ELECT 100MF
C454	1-130-479-00	MYLAR 0.0047MF 5% 50V	C615	1-136-153-00	(WG)...FILM 0.			

fied by ith mark number	Ref.No.	Part No.	Description	10MF	20%	50V	Ref.No.	Part No.	Description	220PF	10%	50V	Ref.No.	Part No.	Description	470MF	20%	25V	Ref.No.	Part No.	Description
par une pour la	C202	1-123-875-11	ELECT	150PF	10%	50V	C462	1-162-286-31	CERAMIC	0.0082MF	5%	50V	C705	1-126-407-51	ELECT	470MF	20%	25V	CNJ601*1-564-508-11	PLUG, CONNECTOR 5P	
par une pour la	C203	1-162-284-31	CERAMIC	0.0056MF	5%	50V	C463	1-130-482-00	MYLAR	0.0047MF	5%	50V	C706	1-123-875-11	ELECT	10MF	20%	50V	CNJ602*1-564-505-21	PLUG, CONNECTOR 2P	
par une spécifié.	C205	1-130-480-00	MYLAR	0.0056MF	5%	50V	C464	1-130-479-00	MYLAR	0.0047MF	5%	50V	C707	1-124-446-11	ELECT	47MF	20%	10V	CNJ603*1-564-508-11	PLUG, CONNECTOR 5P	
	C206	1-130-473-00	MYLAR	0.0015MF	5%	50V	C465	1-162-290-31	CERAMIC	470PF	10%	50V	C708	1-126-101-11	ELECT	100MF	20%	16V	CNJ604*1-564-505-31	PLUG, CONNECTOR 2P	
	C207	1-124-902-00	ELECT	0.47MF	20%	50V	C466	1-124-927-11	ELECT	4.7MF	20%	50V	C709	1-124-917-11	ELECT	33MF	20%	50V	CNJ605*1-564-505-11	PLUG, CONNECTOR 2P	
	C208	1-124-446-11	ELECT	47MF	20%	10V	C467	1-161-379-00	CERAMIC	0.01MF	20%	16V	C710	1-124-478-11	ELECT	100MF	20%	25V	CNJ606*1-564-505-21	PLUG, CONNECTOR 2P	
	C209	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	C468	1-136-161-00	FILM	0.047MF	5%	50V	C711	1-136-159-00	(US)...FILM	0.033MF	5%	50V	CNJ607*1-564-505-41	PLUG, CONNECTOR 2P	
	C210	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	C469	1-161-379-00	CERAMIC	0.01MF	20%	16V	C711	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM	0.068MF	5%	50V	CNJ608*1-564-506-11	PLUG, CONNECTOR 3P	
	C211	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	C470	1-123-875-11	ELECT	10MF	20%	50V							CNJ609*1-564-505-31	PLUG, CONNECTOR 2P	
	C212	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	C471	1-136-165-00	FILM	0.1MF	5%	50V	C712	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM	0.068MF	5%	50V	CNJ801*1-564-501-11	PIN, CONNECTOR 8P	
20%	6.3V	C213	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	C472	1-136-171-00	FILM	0.33MF	5%	50V	C750	1-161-494-00	CERAMIC	0.022MF		25V	CNJ802*1-564-502-11	PIN, CONNECTOR 10P
20%	6.3V	C214	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	C473	1-162-290-31	CERAMIC	470PF	10%	50V	C751	1-124-446-11	ELECT	47MF	20%	10V	CNJ804*1-564-497-11	PIN, CONNECTOR 4P
20%	6.3V	C215	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	C474	1-130-479-00	MYLAR	0.0047MF	5%	50V	C752	1-124-443-00	ELECT	100MF	20%	6.3V	CNJ806*1-564-336-00	PIN, CONNECTOR 2P
20%	6.3V	C216	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	C475	1-162-211-31	CERAMIC	33PF	5%	50V	C753	1-123-875-11	ELECT	10MF	20%	50V	CNJ807*1-564-337-00	PIN, CONNECTOR 3P
20%	50V	C218	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	C477	1-136-158-00	FILM	0.027MF	5%	50V	C754	1-124-477-11	ELECT	47MF	20%	16V	CNJ901 1-566-213-11	PIN, CONNECTOR 4P
20%	50V	C219	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	C478	1-136-161-00	FILM	0.047MF	5%	50V	C755	1-136-153-00	(WG)...FILM	0.01MF	5%	50V	CNP701*1-565-439-11	PIN, CONNECTOR (PCB) 10P
20%	50V	C220	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V	C479	1-130-482-00	MYLAR	0.0082MF	5%	50V	C801	1-125-416-11	(AEP,UK,WG)...ELECT	1000MF	20%	63V	CNP702*1-565-344-11	PIN, CONNECTOR (PC BOARD) 8P
10MF	20%	C300	1-124-927-11	ELECT	4.7MF	20%	50V	C480	1-161-379-00	CERAMIC	0.01MF	20%	16V	C801	1-125-522-11	(US,Canadian,E) ...ELECT	1200MF	20%	71V	CNP703*1-565-440-11	PIN, CONNECTOR (PCB) 12P
10MF	20%	C302	1-124-927-11	ELECT	4.7MF	20%	50V	C500	1-124-927-11	ELECT	4.7MF	20%	50V	C802	1-125-416-11	(AEP,UK,WG)...ELECT	1000MF	20%	63V	CNS701*1-565-438-11	SOCKET, CONNECTOR (PCB) 10P
10MF	20%	C304	1-123-875-11	ELECT	10MF	20%	50V	C501	1-162-292-31	CERAMIC	680PF	10%	50V	C802	1-125-522-11	(US,Canadian,E) ...ELECT	1200MF	20%	71V	CNS702*1-565-347-11	SOCKET, CONNECTOR (PC BOARD) 8P
10MF	20%	C306	1-162-211-31	CERAMIC	33PF	5%	50V	C502	1-124-446-11	ELECT	47MF	20%	10V	C804	1-124-618-11	ELECT	2200MF	20%	35V	D50 8-719-000-26	DIODE US1060M
10MF	20%	C307	1-124-927-11	ELECT	4.7MF	20%	50V	C503	1-161-959-00	CERAMIC	22PF	10%	500V	C805	1-124-618-11	ELECT	2200MF	20%	35V	D51 8-719-000-26	DIODE US1060M
10MF	20%	C308	1-124-927-11	ELECT	4.7MF	20%	50V	C504	1-124-446-11	ELECT	47MF	20%	10V	C807	1-124-360-00	ELECT	1000MF	20%	16V	D501 8-719-000-51	DIODE UZL-6L2
20%	50V	C309	1-162-211-31	CERAMIC	33PF	5%	50V	C505	1-162-193-31	CERAMIC	3.3PF	10%	50V	C808	1-124-119-00	ELECT	330MF	20%	16V	D502 8-719-002-85	DIODE US1090M
20%	50V	C310	1-124-446-11	ELECT	47MF	20%	10V	C506	1-161-959-00	CERAMIC	22PF	10%	500V	C809	1-123-875-11	ELECT	10MF	20%	50V	D503 8-719-002-85	DIODE US1090M
20%	50V	C311	1-162-217-31	CERAMIC	56PF	5%	50V	C507	1-124-446-11	ELECT	47MF	20%	10V	C810	1-123-875-11	ELECT	10MF	20%	50V	D504 8-719-002-85	DIODE US1090M
30%	25V	C312	1-124-927-11	ELECT	4.7MF	20%	50V	C508	1-136-159-00	(US)...FILM	0.033MF	5%	50V	C811	1-123-875-11	ELECT	10MF	20%	50V	D601 8-719-000-51	DIODE UZL-6L2
10%	50V	C313	1-130-475-00	MYLAR	0.0022MF	5%	50V	C508	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM	0.068MF	5%	50V	C812	1-124-446-11	ELECT	47MF	20%	10V	D602 8-719-002-85	DIODE US1090M
10%	50V	C314	1-136-157-00	FILM	0.022MF	5%	50V	C509	1-136-163-00	(Canadian,AEP,UK,E,WG) ...FILM	0.068MF	5%	50V	C813	1-124-446-11	ELECT	47MF	20%	10V	D603 8-719-002-85	DIODE US1090M
5%	50V	C315	1-130-481-00	MYLAR	0.0068MF	5%	50V	C510	1-136-153-00	(WG)...FILM	0.01MF	5%	50V	C815	1-124-480-11	ELECT	470MF	20%	25V	D604 8-719-002-85	DIODE US1090M
20%	50V	C316	1-136-163-00	FILM	0.068MF	5%	50V	C510A	1-162-596-00	(WG)...CERAMIC	0.022MF		25V	C816	1-123-875-11	ELECT	10MF	20%	50V	D700 8-719-000-26	DIODE US1060M
20%	50V	C317	1-123-875-11	ELECT	10MF	20%	50V	C511	1-136-153-00	(WG)...FILM	0.01MF	5%	50V	C817	1-123-875-11	ELECT	10MF	20%	50V	D701 8-719-000-26	DIODE US1060M
5%	50V	C400	1-124-927-11	ELECT	4.7MF	20%</td															

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
D911	8-719-301-38	DIODE SEL2210S-C (CD)	J100	1-565-320-11	JACK, PIN 6P
D912	8-719-301-38	DIODE SEL2210S-C (TUNER)	J101	1-565-320-11	JACK, PIN 6P
D913	8-719-301-38	DIODE SEL2210S-C (PHONO)	J102	1-565-320-11	JACK, PIN 6P
D914	8-719-000-26	DIODE US1060M	J103	1-565-320-11	JACK, PIN 6P
D915	8-719-000-26	DIODE US1060M	J500	1-507-932-11	JACK (HEADPHONES)
D916	8-719-000-26	DIODE US1060M	L500	*1-420-872-00	COIL, AIR CORE (1.9 UH)
D917	8-719-000-51	DIODE UZL-6L2	L600	*1-420-872-00	COIL, AIR CORE (1.9 UH)
D918	8-719-000-26	DIODE US1060M	L700	*1-420-872-00	COIL, AIR CORE (1.9 UH)
D919	8-719-301-60	DIODE SEL2910A-C (MUTING)	L800	1-408-080-00	INDUCTOR 100UH
D920	8-719-000-26	DIODE US1060M	Q50	8-729-117-54	TRANSISTOR 2SA1175
D921	8-719-000-26	DIODE US1060M	Q51	8-729-117-54	TRANSISTOR 2SA1175
D922	8-719-000-26	DIODE US1060M	Q52	8-729-117-54	TRANSISTOR 2SA1175
D923	8-719-310-03	DIODE SEL4925A-C (DOLBY)	Q53	8-729-117-54	(US,Canadian,E)...TRANSISTOR 2SA1175
D924	8-719-310-03	DIODE SEL4925A-C (HQALL)	Q54	8-729-117-54	(US,Canadian,E)...TRANSISTOR 2SA1175
D925	8-719-310-03	DIODE SEL4925A-C (SIMULATED)	Q55	8-729-117-54	(US,Canadian,E)...TRANSISTOR 2SA1175
D929	8-719-000-26	DIODE US1060M	Q56	8-729-117-54	(US,Canadian,E)...TRANSISTOR 2SA1175
D930	8-719-000-26	(Canadian,AEP,UK,E,WG)...DIODE US1060M	Q57	8-729-117-54	(US,Canadian,E)...TRANSISTOR 2SA1175
D931	8-719-000-26	DIODE US1060M	Q58	8-729-117-54	(US,Canadian,E)...TRANSISTOR 2SA1175
F1	▲1-532-237-00	(AEP,UK,E,WG)...FUSE, TIME-LAG (3.15A)	Q500	8-729-107-99	TRANSISTOR 2SC3622A
F1	▲1-532-748-00	(US,Canadian)...FUSE (6.3A)	Q501	8-729-697-92	TRANSISTOR 2SA979-G
F2	▲1-532-237-00	(E).....FUSE, TIME-LAG (3.15A)	Q502	8-729-108-14	TRANSISTOR 2SA988-F
F2	▲1-532-286-00	(AEP,UK,WG).....FUSE, TIME-LAG (2.15A)	Q503	8-729-178-54	TRANSISTOR 2SC2785
IC50	8-759-240-52	(US,Canadian,E)...IC M4052BP	Q504	8-729-178-54	TRANSISTOR 2SC2785
IC51	8-759-240-52	IC M4052BP	Q505	8-729-104-91	TRANSISTOR 2SA1383
IC100	8-759-600-02	IC M5218L	Q506	8-729-107-25	TRANSISTOR 2SD1585
IC101	8-759-805-14	IC LC7822	Q507	8-729-104-18	TRANSISTOR 2SC3514
IC102	8-759-601-43	IC M4066BP	Q508	8-729-178-54	TRANSISTOR 2SC2785
IC202	8-759-601-43	IC M4066BP	Q509	8-729-117-54	TRANSISTOR 2SA1175
IC300	8-759-601-43	IC M4066BP	Q510	8-729-107-53	TRANSISTOR 2SC2275A-P
IC301	8-759-600-02	IC M5218L	Q511	8-729-190-53	TRANSISTOR 2SA985A-P
IC302	8-759-600-02	IC M5218L	Q512	8-729-300-22	(US,Canadian,E)...TRANSISTOR 2SA1215
IC303	8-759-600-02	IC M5218L	Q512	8-729-304-29	(AEP,UK,WG).....TRANSISTOR 2SA1491
IC450	8-759-600-02	IC M5218L	Q513	8-729-300-36	(US,Canadian,E)...TRANSISTOR 2SC2921
IC451	8-759-600-02	IC M5218L	Q513	8-729-304-32	(AEP,UK,WG).....TRANSISTOR 2SC3855
IC452	8-759-403-66	IC MN3007	Q514	8-729-108-06	TRANSISTOR 2SC1841
IC453	8-759-400-11	IC MN3101	Q600	8-729-107-99	TRANSISTOR 2SC3622A
IC454	8-759-600-02	IC M5218L	Q601	8-729-697-92	TRANSISTOR 2SA979-G
IC455	8-759-929-37	IC NE646N	Q602	8-729-108-14	TRANSISTOR 2SA988-F
IC700	8-749-920-29	IC STK-4026	Q603	8-729-178-54	TRANSISTOR 2SC2785
IC701	8-759-111-68	IC UPC1237HA	Q604	8-729-178-54	TRANSISTOR 2SC2785
IC800	8-759-604-49	IC M5F7909	Q605	8-729-104-91	TRANSISTOR 2SA1383
IC801	8-759-604-31	IC M5F7809	Q606	8-729-107-25	TRANSISTOR 2SD1585
IC802	8-759-604-49	IC M5F7909	Q607	8-729-104-18	TRANSISTOR 2SC3514
IC803	8-759-604-33	(E)...IC M5F7812	Q608	8-729-178-54	TRANSISTOR 2SC2785
IC900	8-759-630-57	IC M50720-401SP	Q609	8-729-117-54	TRANSISTOR 2SA1175
IC901	8-749-901-49	IC SBX1492-51	Q610	8-729-107-53	TRANSISTOR 2SC2275A-P
J50	1-563-136-31	JACK, PIN 3P	Q611	8-729-190-53	TRANSISTOR 2SA985A-P
J51	1-565-351-21	JACK, PIN 3P	Q612	8-729-300-22	(US,Canadian,E)...TRANSISTOR 2SA1215
J52	1-565-351-21	JACK, PIN 3P	Q612	8-729-304-29	(AEP,UK,WG).....TRANSISTOR 2SA1491
J53	1-566-846-11	(US,Canadian,E)...CONTROL, (S) TERMINAL 4P (VIDEO 3 IN)	Q613	8-729-300-36	(US,Canadian,E)...TRANSISTOR 2SC2921
J54	1-566-846-11	(US,Canadian,E)...CONTROL, (S) TERMINAL 4P (VIDEO 2 OUT)	Q613	8-729-304-32	(AEP,UK,WG).....TRANSISTOR 2SC3855
J55	1-566-846-11	(US,Canadian,E)...CONTROL, (S) TERMINAL 4P (VIDEO 2 IN)	Q614	8-729-108-06	TRANSISTOR 2SC1841
J56	1-566-846-11	(US,Canadian,E)...CONTROL, (S) TERMINAL 4P (VIDEO 1 OUT)	Q700	8-729-107-99	TRANSISTOR 2SC3622A-K
J57	1-566-846-11	(US,Canadian,E)...CONTROL, (S) TERMINAL 4P (VIDEO 1 IN)	Q701	8-729-900-61	TRANSISTOR DTA114ES
J58	1-566-846-11	(US,Canadian,E)...CONTROL, (S) TERMINAL 4P (MONITOR OUT)	Q702	8-729-900-63	TRANSISTOR DTA124ES
			Q703	8-729-117-54	TRANSISTOR 2SA1175
			Q704	8-729-117-54	TRANSISTOR 2SA1175

Note:
The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q705	8-729-117-54	TRANSISTOR 2SA1175	R59	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W
Q800	8-729-178-54	TRANSISTOR 2SC2785	R60	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W
Q801	8-729-117-54	TRANSISTOR 2SA1175	R61	1-247-895-00	CARBON 470K 5% 1/4W
Q802	8-729-801-93	TRANSISTOR 2SD1387	R62	1-249-433-11	CARBON 22K 5% 1/4W
Q900	8-729-900-36	TRANSISTOR DTC124ES	R63	1-249-433-11	CARBON 22K 5% 1/4W
Q901	8-729-900-63	TRANSISTOR DTA124ES	R64	1-247-881-00	CARBON 120K 5% 1/4W
Q902	8-729-900-36	TRANSISTOR DTC124ES	R65	1-249-433-11	CARBON 22K 5% 1/4W
Q903	8-729-900-63	TRANSISTOR DTA124ES	R66	1-249-438-11	CARBON 56K 5% 1/4W
Q904	8-729-900-36	TRANSISTOR DTC124ES	R67	1-249-408-11	CARBON 180 5% 1/4W
Q905	8-729-900-63	TRANSISTOR DTA124ES	R68	1-247-881-00	CARBON 120K 5% 1/4W
Q906	8-729-900-36	TRANSISTOR DTC124ES	R69	1-249-438-11	CARBON 56K 5% 1/4W
Q907	8-729-900-36	TRANSISTOR DTC124ES	R70	1-249-433-11	CARBON 22K 5% 1/4W
Q908	8-729-900-36	TRANSISTOR DTC124ES	R71	1-249-408-11	CARBON 180 5% 1/4W
Q909	8-729-900-36	TRANSISTOR DTC124ES	R72	1-247-881-00	CARBON 120K 5% 1/4W
Q910	8-729-900-63	TRANSISTOR DTA124ES	R73	1-249-438-11	CARBON 56K 5% 1/4W
Q911	8-729-900-63	TRANSISTOR DTA124ES	R74	1-249-408-11	CARBON 180 5% 1/4W
Q912	8-729-900-63	TRANSISTOR DTA124ES	R75	1-247-881-00	(US,Canadian,E)...CARBON 120K 5% 1/4W
Q913	8-729-900-63	TRANSISTOR DTA124ES	R76	1-249-438-11	(US,Canadian,E)...CARBON 56K 5% 1/4W
Q914	8-729-900-63	TRANSISTOR DTA124ES	R77	1-249-433-11	(US,Canadian,E)...CARBON 22K 5% 1/4W
Q915	8-729-900-63	TRANSISTOR DTA124ES	R78	1-249-408-11	(US,Canadian,E)...CARBON 180 5% 1/4W
Q916	8-729-900-36	TRANSISTOR DTC124ES	R79	1-247-881-00	(US,Canadian,E)...CARBON 120K 5% 1/4W
Q917	8-729-900-63	TRANSISTOR DTA124ES	R80	1-249-438-11	(US,Canadian,E)...CARBON 56K 5% 1/4W
Q918	8-729-802-22	TRANSISTOR 2SB1014	R81	1-249-433-11	(US,Canadian,E)...CARBON 22K 5% 1/4W
Q919	8-729-802-34	TRANSISTOR 2SD1388	R82	1-249-408-11	(US,Canadian,E)...CARBON 180 5% 1/4W
Q920	8-729-900-63	TRANSISTOR DTA124ES	R83	1-247-881-00	(US,Canadian,E)...CARBON 120K 5% 1/4W
Q921	8-729-117-54	TRANSISTOR 2SA1175	R84	1-249-438-11	(US,Canadian,E)...CARBON 56K 5% 1/4W
Q922	8-729-117-54	TRANSISTOR 2SA1175	R85	1-249-408-11	(US,Canadian,E)...CARBON 180 5% 1/4W
Q923	8-729-900-63	TRANSISTOR DTA124ES	R86	1-247-881-00	(US,Canadian,E)...CARBON 120K 5% 1/4W
Q924	8-729-900-63	TRANSISTOR DTA124ES	R87	1-249-438-11	(US,Canadian,E)...CARBON 56K 5% 1/4W
Q925	8-729-900-63	TRANSISTOR DTA124ES	R88	1-249-433-11	(US,Canadian,E)...CARBON 22K 5% 1/4W
Q926	8-729-900-63	TRANSISTOR DTA124ES	R89	1-249-408-11	(US,Canadian,E)...CARBON 180 5% 1/4W
Q927	8-729-178-54	TRANSISTOR 2SC2785	R90	1-247-881-00	(US,Canadian,E)...CARBON 120K 5% 1/4W
Q928	8-729-178-54	TRANSISTOR 2SC2785	R91	1-249-438-11	(US,Canadian,E)...CARBON 56K 5% 1/4W
Q929	8-729-900-36	TRANSISTOR DTC124ES	R92	1-249-433-11	(US,Canadian,E)...CARBON 22K 5% 1/4W
Q930	8-729-900-63	TRANSISTOR DTA124ES	R93	1-249-408-11	(US,Canadian,E)...CARBON 180 5% 1/4W
Q931	8-729-178-54	TRANSISTOR 2SC2785	R94	1-247-881-00	(US,Canadian,E)...CARBON 120K 5% 1/4W
Q998	8-729-900-36	TRANSISTOR DTC124ES	R95	1-249-438-11	(US,Canadian,E)...CARBON 56K 5% 1/4W
Q999	8-729-900-63	TRANSISTOR DTA124ES	R96	1-249-408-11	(US,Canadian,E)...CARBON 180 5% 1/4W
R41	1-249-405-11	(US,Canadian,E)...CARBON 100 5% 1/4W	R97	1-247-895-00	(US,Canadian,E)...CARBON 470K 5% 1/4W
R42	1-249-405-11	(US,Canadian,E)...CARBON 100 5% 1/4W	R98	1-247-895-00	(US,Canadian,E)...CARBON 470K 5% 1/4W
R43	1-249-405-11	(US,Canadian,E)...CARBON 100 5% 1/4W	R100	1-249-418-11	(WG)...CARBON 1.2K 5% 1/4W
R44	1-249-405-11	(US,Canadian,E)...CARBON 100 5% 1/4W	R101	1-249-441-11	CARBON 100K 5% 1/4W
R45	1-249-405-11	(US,Canadian,E)...CARBON 100 5% 1/4W	R102	1-249-411-11	(US,Canadian,AEP,UK,E) ...CARBON 330 5% 1/4W
R46	1-249-405-11	(US,Canadian,E)...CARBON 100 5% 1/4W	R102	1-249-413-11	(WG)...CARBON 470 5% 1/4W
R47	1-249-405-11	CARBON 100 5% 1/4W	R103	1-249-416-11	CARBON 820 5% 1/4W
R48	1-249-405-11	CARBON 100 5% 1/4W	R104	1-249-441-11	CARBON 100K 5% 1/4W
R49	1-249-405-11	CARBON 100 5% 1/4W	R105	1-247-897-11	CARBON 560K 5% 1/4W
R50	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W	R106	1-249-437-11	CARBON 47K 5% 1/4W
R51	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W	R107	1-249-441-11	CARBON 100K 5% 1/4W
R52	1-247-804-11	CARBON 75 5% 1/4W	R108	1-249-409-11	CARBON 220 5% 1/4W
R53	1-247-804-11	CARBON 75 5% 1/4W	R109	1-249-418-11	CARBON 1.2K 5% 1/4W
R54	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W	R110	1-249-418-11	CARBON 1.2K 5% 1/4W
R55	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W	R111	1-249-413-11	CARBON 470 5% 1/4W
R56	1-247-804-11	CARBON 75 5% 1/4W	R112	1-249-418-11	CARBON 1.2K 5% 1/4W
R57	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W	R113	1-249-418-11	CARBON 1.2K 5% 1/4W
R58	1-215-394-00	(US,Canadian,E)...CARBON 75 5% 1/4W	R114	1-249-418-11	CARBON 1.2K 5% 1/4W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R115	1-249-413-11	CARBON	470	5%	1/4W	R407	1-247-887-00	CARBON	220K	5%	1/4W
R116	1-249-418-11	CARBON	1.2K	5%	1/4W	R408	1-249-429-11	CARBON	10K	5%	1/4W
R117	1-249-413-11	CARBON	470	5%	1/4W	R409	1-249-429-11	CARBON	10K	5%	1/4W
R118	1-249-418-11	CARBON	1.2K	5%	1/4W	R410	1-249-417-11	CARBON	1K	5%	1/4W
R119	1-249-413-11	CARBON	470	5%	1/4W	R411	1-249-441-11	CARBON	100K	5%	1/4W
R120	1-249-418-11	CARBON	1.2K	5%	1/4W	R412	1-249-430-11	CARBON	12K	5%	1/4W
R121	1-249-429-11	CARBON	10K	5%	1/4W	R413	1-247-887-00	CARBON	220K	5%	1/4W
R122	1-249-433-11	CARBON	22K	5%	1/4W	R414	1-249-427-11	CARBON	6.8K	5%	1/4W
R123	1-249-433-11	CARBON	22K	5%	1/4W	R415	1-249-415-11	CARBON	680	5%	1/4W
R124	1-249-433-11	CARBON	22K	5%	1/4W	R416	1-249-434-11	CARBON	27K	5%	1/4W
R200	1-249-418-11	(WG)...CARBON	1.2K	5%	1/4W	R417	1-249-422-11	CARBON	2.7K	5%	1/4W
R201	1-249-441-11	CARBON	100K	5%	1/4W	R418	1-249-417-11	CARBON	1K	5%	1/4W
R202	1-249-411-11	(US,Canadian,AEP,UK,E)	330	5%	1/4W	R450	1-249-441-11	CARBON	100K	5%	1/4W
R202	1-249-413-11	(WG)...CARBON	470	5%	1/4W	R451	1-249-441-11	CARBON	100K	5%	1/4W
R202	1-249-413-11	(WG)...CARBON	470	5%	1/4W	R452	1-249-428-11	CARBON	8.2K	5%	1/4W
R203	1-249-441-11	CARBON	100K	5%	1/4W	R453	1-249-428-11	CARBON	8.2K	5%	1/4W
R204	1-249-416-11	CARBON	820	5%	1/4W	R454	1-249-431-11	CARBON	15K	5%	1/4W
R205	1-247-897-11	CARBON	560K	5%	1/4W	R455	1-249-428-11	CARBON	8.2K	5%	1/4W
R206	1-249-437-11	CARBON	47K	5%	1/4W	R456	1-249-405-11	CARBON	100	5%	1/4W
R207	1-249-441-11	CARBON	100K	5%	1/4W	R457	1-249-413-11	CARBON	470	5%	1/4W
R208	1-249-409-11	CARBON	220	5%	1/4W	R458	1-249-413-11	CARBON	470	5%	1/4W
R209	1-249-418-11	CARBON	1.2K	5%	1/4W	R459	1-249-441-11	CARBON	100K	5%	1/4W
R210	1-249-418-11	CARBON	1.2K	5%	1/4W	R460	1-249-441-11	CARBON	100K	5%	1/4W
R211	1-249-413-11	CARBON	470	5%	1/4W	R461	1-249-426-11	CARBON	5.6K	5%	1/4W
R212	1-249-418-11	CARBON	1.2K	5%	1/4W	R462	1-249-426-11	CARBON	5.6K	5%	1/4W
R213	1-249-418-11	CARBON	1.2K	5%	1/4W	R463	1-249-437-11	CARBON	47K	5%	1/4W
R214	1-249-418-11	CARBON	1.2K	5%	1/4W	R464	1-249-440-11	CARBON	82K	5%	1/4W
R215	1-249-413-11	CARBON	470	5%	1/4W	R465	1-249-414-11	CARBON	560	5%	1/4W
R216	1-249-418-11	CARBON	1.2K	5%	1/4W	R466	1-247-887-00	CARBON	220K	5%	1/4W
R217	1-249-413-11	CARBON	470	5%	1/4W	R467	1-249-428-11	CARBON	8.2K	5%	1/4W
R218	1-249-418-11	CARBON	1.2K	5%	1/4W	R468	1-249-428-11	CARBON	8.2K	5%	1/4W
R219	1-249-413-11	CARBON	470	5%	1/4W	R469	1-249-431-11	CARBON	15K	5%	1/4W
R220	1-249-418-11	CARBON	1.2K	5%	1/4W	R470	1-249-428-11	CARBON	8.2K	5%	1/4W
R300	1-249-417-11	CARBON	1K	5%	1/4W	R471	1-249-429-11	CARBON	10K	5%	1/4W
R301	1-249-438-11	CARBON	56K	5%	1/4W	R472	1-249-427-11	CARBON	6.8K	5%	1/4W
R302	1-249-441-11	CARBON	100K	5%	1/4W	R473	1-247-889-00	CARBON	270K	5%	1/4W
R303	1-249-429-11	CARBON	10K	5%	1/4W	R474	1-247-885-00	CARBON	180K	5%	1/4W
R304	1-249-429-11	CARBON	10K	5%	1/4W	R475	1-249-439-11	CARBON	68K	5%	1/4W
R307	1-247-887-00	CARBON	220K	5%	1/4W	R476	1-249-433-11	CARBON	22K	5%	1/4W
R308	1-249-429-11	CARBON	10K	5%	1/4W	R477	1-249-435-11	CARBON	33K	5%	1/4W
R309	1-249-429-11	CARBON	10K	5%	1/4W	R478	1-249-437-11	CARBON	47K	5%	1/4W
R310	1-249-417-11	CARBON	1K	5%	1/4W	R479	1-249-433-11	CARBON	22K	5%	1/4W
R311	1-249-441-11	CARBON	100K	5%	1/4W	R480	1-249-408-11	CARBON	180	5%	1/4W
R312	1-249-430-11	CARBON	12K	5%	1/4W	R481	1-249-423-11	CARBON	3.3K	5%	1/4W
R313	1-247-887-00	CARBON	220K	5%	1/4W	R482	1-249-405-11	CARBON	100	5%	1/4W
R314	1-249-427-11	CARBON	6.8K	5%	1/4W	R483	1-247-887-00	CARBON	220K	5%	1/4W
R315	1-249-415-11	CARBON	680	5%	1/4W	R484	1-247-881-00	CARBON	120K	5%	1/4W
R316	1-249-434-11	CARBON	27K	5%	1/4W	R485	1-249-425-11	CARBON	4.7K	5%	1/4W
R317	1-249-422-11	CARBON	2.7K	5%	1/4W	R500	1-249-417-11	CARBON	1K	5%	1/4W
R318	1-249-417-11	CARBON	1K	5%	1/4W	R501	1-249-417-11	CARBON	1K	5%	1/4W
R400	1-249-417-11	CARBON	1K	5%	1/4W	R502	1-249-437-11	CARBON	47K	5%	1/4W
R401	1-249-438-11	CARBON	56K	5%	1/4W	R503	1-249-423-11	CARBON	3.3K	5%	1/4W
R402	1-249-441-11	CARBON	100K	5%	1/4W	R504	1-249-411-11	CARBON	330	5%	1/4W
R403	1-249-429-11	CARBON	10K	5%	1/4W	R505	1-247-704-11	CARBON	220	5%	1/4W
R404	1-249-429-11	CARBON	10K	5%	1/4W	R506	1-247-704-11	CARBON	220	5%	1/4W
R405	1-249-429-11	CARBON	10K	5%	1/4W	R507	1-249-437-11	CARBON	47K	5%	1/4W
R406	1-249-429-11	CARBON	10K	5%	1/4W	R508	1-249-421-11	CARBON	2.2K	5%	1/4W
Note: The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.						Note: Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.					
Note: The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.						Note: Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.					
Note: The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.						Note: Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.					
Note: The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.						Note: Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.					

SECTION 6

TROUBLE SHOOTING

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R917	1-249-433-11	CARBON 22K 5% 1/4W	S1	A-1-571-515-11	(E)....VOLTAGE SELECTOR
R918	1-249-414-11	CARBON 560 5% 1/4W	S500	1-570-270-11	SWITCH, PUSH (2 KEY)(SPEAKERS)
R919	1-249-429-11	CARBON 10K 5% 1/4W	S900	1-554-303-21	SWITCH, KEY BOARD (VIDEO 1)
			S901	1-554-303-21	SWITCH, KEY BOARD (VIDEO 2)
R922	1-249-394-11	CARBON 12 5% 1/4W	S902	1-554-303-21	SWITCH, KEY BOARD (VIDEO 3/CDV)
R923	1-249-419-11	CARBON 1.5K 5% 1/4W	S903	1-554-303-21	SWITCH, KEY BOARD (VIDEO 4)
R925	1-249-394-11	CARBON 12 5% 1/4W	S904	1-554-303-21	SWITCH, KEY BOARD (TAPE/DAT)
R926	1-249-417-11	CARBON 1K 5% 1/4W	S905	1-554-303-21	SWITCH, KEY BOARD (CD)
R927	1-244-871-91	CARBON 820 5% 1/2W	S906	1-554-303-21	SWITCH, KEY BOARD (TUNER)
R928	1-249-441-11	CARBON 100K 5% 1/4W	S907	1-554-303-21	SWITCH, KEY BOARD (PHONO)
R929	1-249-425-11	CARBON 4.7K 5% 1/4W	S908	1-571-436-11	SWITCH, KEY BOARD (SYSTEM POWER)
R930	1-249-433-11	CARBON 22K 5% 1/4W	S909	1-554-303-21	SWITCH, KEY BOARD (MUTING)
R931	1-249-433-11	CARBON 22K 5% 1/4W	S910	1-554-303-21	SWITCH, KEY BOARD (SUR OFF)
R932	1-249-425-11	CARBON 4.7K 5% 1/4W	S911	1-554-303-21	SWITCH, KEY BOARD (DOLBY)
R933	1-249-441-11	CARBON 100K 5% 1/4W	S912	1-554-303-21	SWITCH, KEY BOARD (HALL)
R934	1-249-437-11	CARBON 47K 5% 1/4W	S913	1-554-303-21	SWITCH, KEY BOARD (SIMULATED)
R935	1-249-437-11	CARBON 47K 5% 1/4W	T1	A-1-449-265-11	(US,Canadian)...TRANSFORMER, POWER
R936	1-249-437-11	CARBON 47K 5% 1/4W	T1	A-1-449-300-11	(AEP,UK,WG)....TRANSFORMER, POWER
R937	1-249-437-11	CARBON 47K 5% 1/4W	T1	A-1-449-301-11	(E).....TRANSFORMER, POWER
R938	1-249-429-11	CARBON 10K 5% 1/4W	T2	A-1-449-296-11	(US,Canadian)...TRANSFORMER, POWER
R939	1-249-429-11	CARBON 10K 5% 1/4W	T2	A-1-449-297-11	(AEP,UK,WG)....TRANSFORMER, POWER
R940	1-249-417-11	CARBON 1K 5% 1/4W	T2	A-1-449-299-11	(E).....TRANSFORMER, POWER
R941	1-249-429-11	CARBON 10K 5% 1/4W	TM500	1-536-706-00	TERMINAL BOARD (SP)
R942	1-249-417-11	CARBON 1K 5% 1/4W	TM700	1-537-156-11	TERMINAL BOARD (SPEAKER)
R943	1-249-393-11	CARBON 10 5% 1/4W	TP1	*1-560-063-00	PIN, CONNECTOR 5P
R944	1-244-871-91	CARBON 820 5% 1/2W	X900	1-567-254-11	OSCILLATOR, CERAMIC (2MHz)
R945	1-244-871-91	CARBON 820 5% 1/2W			
R946	1-249-423-11	CARBON 3.3K 5% 1/4W			
R946A	1-249-425-11	CARBON 4.7K 5% 1/4W			
R947	1-249-441-11	CARBON 100K 5% 1/4W			
R949	1-249-433-11	CARBON 22K 5% 1/4W			
RV300	1-238-190-11	RES, VAR, CARBON 250K (BALANCE)			
RV301	1-238-159-11	RES, VAR, CARBON (MOTOR)250KX3 (VOLUME)			
RV302	1-238-156-11	RES, VAR, CARBON 250K/250K (BALANCE)			
RV303	1-238-157-11	RES, VAR, CARBON 100K/100K (TREBLE)			
RV304	1-238-157-11	RES, VAR, CARBON 100K/100K (BASS)			
RV700	1-238-158-11	RES, VAR, CARBON 100K (SURROUND LEVEL)			
RY700	1-515-356-00	RELAY (MUTING)			
RY900	1-515-617-11	(AEP,UK,E,WG)...RELAY (POWER)			
RY900	1-515-701-11	(US,Canadian)...RELAY (POWER)			

ACCESSORY & PACKING MATERIAL					
1-463-983-11	REMOTE COMMANDER (RM-P102)				
3-703-450-03	(US)....INSTRUCTION				
3-786-058-11	(AEP,UK,E).....MANUAL, INSTRUCTION				
3-786-058-21	(US,Canadian)...MANUAL, INSTRUCTION				
3-786-058-31	(Canadian).....MANUAL, INSTRUCTION				
3-786-058-41	(AEP,WG).....MANUAL, INSTRUCTION				
4-922-048-01	COVER, BATTERY (REMOTE COMMANDER)				
4-915-702-01	LABEL, CAUTION, DOLBY SURROUND				
*4-921-346-01	CUSHION				
*4-921-349-01	INDIVIDUAL CARTON				

Note:
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Should any problem persist after you have made these checks, consult your nearest Sony service facility.
Before going through the check list below, first refer back to the connection and operating procedures.

Trouble		Possible Causes
	Power cannot be turned on.	Check if the power cord is disconnected from the power outlet.
Audio	No audio.	<ul style="list-style-type: none"> Check for faulty connection. Check for short-circuited speaker terminals. The shorting plug of the EQUALIZER jacks are disconnected. Check that the connected equipment, such as a graphic equalizer, is turned on.
	No audio from one channel.	<ul style="list-style-type: none"> Check if the BALANCE is set to an extreme position. Check if the speaker cord or connection cord is disconnected.
	Distorted audio.	<ul style="list-style-type: none"> Check if the audio volume setting is above the maximum permissible input of the speakers.
	Obscure instrument positioning, with lack of bass sound.	<ul style="list-style-type: none"> Check if the positive (+) speaker terminal on the main body is not connected to the negative (-) terminal on the speaker, and vice versa.
Video	Hum or noise.	<ul style="list-style-type: none"> Check that the grounding wire of the turntable is connected securely. Check that the connection cords are inserted securely into jacks.
	No video.	<ul style="list-style-type: none"> Check that the connections are correct. Check that the correct FUNCTION is selected.
	Unclear video, low image quality.	<ul style="list-style-type: none"> Check if there is any nearby source of noise.
Programmable Commander	Remote-control operation cannot be performed.	<ul style="list-style-type: none"> Check that the batteries are loaded correctly. Check if there is any obstacle between the programmable commander and amplifier. Check if the batteries are exhausted. Check if the mode selector is set to USER STD in remote-control operation using programmed signals.
	The remote-control signal cannot be programmed. The READY lamp does not light.	<ul style="list-style-type: none"> Place both remote commanders apart from the source of noise. The batteries are exhausted.
	The LEARNED indicator blinks.	<ul style="list-style-type: none"> The internal memory capacity is full.